

20020916.qrp v02_n680.qrl.20020916

Date: Mon, 16 Sep 2002 19:03:07 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2680

QRP-L Digest 2680

Topics covered in this issue include:

- 1) [135094] Re: Etchant Resist
by "Bob Tellefsen" <n6wg@earthlink.net>
- 2) [135095] Re: Etchant Resist
by wkhibbert@juno.com
- 3) [135096] Re: OT:IRLP
by "Karl F. Larsen" <k5di@zianet.com>
- 4) [135097] Comments on Kenwwod TS-830S
by "Kevin M., KC8SFJ" <adverseyaw@twmi.rr.com>
- 5) [135098] eHam down?
by Kenneth Hoglund <hoglund@wfu.edu>
- 6) [135099] Rock-Mite wrap-up plus US Navy heterodyne freq meter...attn: W5YR
by "Bill, N4QA" <n4qa@hotmail.com>
- 7) [135100] OT: WWII, Korea, Vietnam, Gulf Vets - Some School Help Pls
by Lew Paceley <lew@paceley.com>
- 8) [135101] Fwd: (OQRPWW 111) 12th OQRP-Contest: comments
by dl6aaf@t-online.de (Uwe Meier)
- 9) [135102] Re: Galena doesn't work!
by "W3CDE Jerry L." <w3cde@bellsouth.net>
- 10) [135103] Re: Hooray! New rig comes to life; takes bite out of the ether ...
by Bruce Muscolino <w6toy@erols.com>
- 11) [135104] Re: OT:IRLP
by IamSF5@aol.com
- 12) [135105] Re: Galena doesn't work!
by "Mike Yetsko" <myetsko@insydesw.com>
- 13) [135106] Another DC trx project & other distractions
by Nils R Young <nilsbull@juno.com>
- 14) [135107] Re: Etchant Resist
by Bruce Muscolino <w6toy@erols.com>
- 15) [135108] Re: Comments on Kenwwod TS-830S
by Bruce Muscolino <w6toy@erols.com>
- 16) [135109] IT IS ALIVE!!! Rockmite
by "Brian" <brian@iquest.net>
- 17) [135110] Re: OT:IRLP
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 18) [135111] Re: OT:IRLP
by "Lee Mairs" <lmairs@cox.net>
- 19) [135112] Re: Stabel VFO's

- by Bruce Muscolino <w6toy@erols.com>
- 20) [135113] Re: Galena doesn't work!
by <igeq100@iupui.edu>
- 21) [135114] Re: Comments on Kenwwod TS-830S
by "George, W5YR" <w5yr@att.net>
- 22) [135115] Re: QRP Afield - Clarification of Multi-Club Station rule.
by "George, W5YR" <w5yr@att.net>
- 23) [135116] OT:IRLP
by JD Delancy <W1JD@drix.net>
- 24) [135117] Re: OT:IRLP
by JD Delancy <W1JD@drix.net>
- 25) [135118] Re: OT:IRLP
by JD Delancy <W1JD@drix.net>
- 26) [135119] FS: MP-1 Superantenna + Accys
by "John O. Newell" <jnewell@attbi.com>
- 27) [135120] Re: IT IS ALIVE!!! Rockmite
by "Brian" <brian@iquiest.net>
- 28) [135121] Re: OT:IRLP
by "Karl F. Larsen" <k5di@zianet.com>
- 29) [135122] Neat boot manager
by "Rob Matherly" <w0jrm@arrl.net>
- 30) [135123] Re: OT:IRLP
by JD Delancy <W1JD@drix.net>
- 31) [135124] Re: Comments on Kenwwod TS-830S
by Lew Paceley <lew@paceley.com>
- 32) [135125] Linux talking over the internet
by "Karl F. Larsen" <k5di@zianet.com>
- 33) [135126] Re: OT:IRLP
by Dave Gingrich K9DC <gingrich2@dcg.org>
- 34) [135127] TS-830S radio
by "Karl F. Larsen" <k5di@zianet.com>
- 35) [135128] Re: TS-830S radio
by "John P. Cummins, Sr." <jpcummins@charter.net>
- 36) [135129] trade for guitar hardware?
by David Hinerman <WD8CIV@worldnet.att.net>
- 37) [135130] Re: Single letter beacons
by "Steve Yates - AA5TB" <aa5tb@arrl.net>
- 38) [135131] Re: TS-830S radio
by Dave Sjolin <sjolin@swbell.net>
- 39) [135132] Re: TS-830S radio
by IamSF5@aol.com
- 40) [135133] Re: TS-830S radio
by George Fremin III - K5TR <geoiiii@kkn.net>
- 41) [135134] Great night for Rockmite
by "Brian" <brian@iquiest.net>
- 42) [135135] Fw: Great night for Rockmite
by "Jerry Ford" <benlightnd13@mchsi.com>
- 43) [135136] FS: K2

by "NZ8J" <nz8j@woh.rr.com>
44) [135137] Re: Etchant Resist
by "Brad Hernlem" <alihernlem@hotmail.com>
45) [135138] TS-830S radio
by "W2WU" <w2wurjj@verizon.net>
46) [135139] Re: Comments on Kenwwod TS-830S
by Bruce Muscolino <w6toy@erols.com>
47) [135140] Re: TS-830S radio
by Bruce Muscolino <w6toy@erols.com>
48) [135141] RE: Etchant Resist
by "Leon Heller" <leon_heller@hotmail.com>
49) [135142] ts-830s
by N4SKS@cs.com
50) [135143] Re: TS-830S radio
by "Larry Spinner" <n2icz@hotmail.com>
51) [135144] Re: QRP Afield - Clarification of Multi-Club Station rule.
by Chuck Ludinsky <cjl@mitre.org>
52) [135145] Re: TS-830S radio
by W2AGN <w2agn@w2agn.net>
53) [135146] Re: TS-830S radio
by n8ie <n8ie@woh.rr.com>
54) [135147] Re: TS-830S radio
by "John P. Cummins, Sr." <jpcummins@charter.net>
55) [135148] Re: TS-830S radio
by "Trevor Jacobs" <kg6cyn@earthlink.net>
56) [135149] Re: OT:IRLP
by W2AGN <w2agn@w2agn.net>
57) [135150] Re: Linux talking over the internet
by W2AGN <w2agn@w2agn.net>
58) [135151] FS - Quad stuff, Houston area
by <mgoins@usa.net>
59) [135152] Re: OT:IRLP
by "W2BJ" <w2bj@minsky.info>
60) [135153] Oops...
by David Hinerman <WD8CIV@worldnet.att.net>
61) [135154] Re: Comments on Kenwwod TS-830S
by "Kevin M., KC8SFJ" <adverseyaw@twmi.rr.com>
62) [135155] FS BayPac Modem
by "MELBA WHITE" <lwnphx@peoplepc.com>
63) [135156] On VFO stability
by "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
64) [135157] Re: QRP Afield - Clarification of Multi-Club Station rule.
by "George, W5YR" <w5yr@att.net>
65) [135158] RE: trade for guitar hardware?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
66) [135159] RE: QST Free? No, I don't think so.
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
67) [135160] RE: My One & Only ARRL Post

by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
68) [135161] RE: QST on news stands
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
69) [135162] Gillette "Blue Blade" radios....
by "Rex Harper" <w1rex@megalink.net>
70) [135163] Has anyone built the WA1FFL DDS VFO Kit from Jan 2002 QST??
by k4VIB@att.net
71) [135164] K2 case
by Bruce Rattray <rattray@gpfn.sk.ca>
72) [135165] Re: TS-830S radio
by "Michael Melland" <w9wis@charter.net>
73) [135166] Re: QRP Afield - Clarification of Multi-Club Station rule.
by "Walter AG5P" <walter@accessus.net>
74) [135167] RE: Sad Day
by "KD5NWA" <KD5NWA@mbayona.com>
75) [135168] RE: TS-830S radio
by "Mullin, Edward J." <mulline@tycoelectronics.com>
76) [135169] Re: Has anyone built the WA1FFL DDS VFO Kit from Jan 2002 QST??
by "Brice D. Hornback" <bdh@cyberbound.net>
77) [135170] Re: Great night for Rockmite
by <igeq100@iupui.edu>
78) [135171] Re: Comments on Kenwood TS-830S
by "Lee Mairs" <lmairs@cox.net>
79) [135172] RE: Serial CW Sender noise issues
by "KD5NWA" <KD5NWA@mbayona.com>
80) [135173] Re: Etchant Resist
by "" <markb@abq.com>
81) [135174] Drake tr7 OT
by "Hartwell, Martin E, ALINF" <mehartwell@att.com>
82) [135175] Re: TS-830S radio
by Bruce Muscolino <w6toy@erols.com>
83) [135176] TV ferrite for balun/choke
by "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
84) [135177] Boiling coils
by "Hartwell, Martin E, ALINF" <mehartwell@att.com>
85) [135178] Re: TS-830S radio
by MIKE SOUHRADA <wb9iog@revealed.net>
86) [135179] Re: Drake tr7 OT
by William R Colbert <w5xe@juno.com>
87) [135180] Re: Comments on Kenwood TS-830S
by "Charles W3KC" <w3kc@starpower.net>
88) [135181] HB: Crystal & Foxhole Radio Parts Depot
by "Rex Harper" <w1rex@megalink.net>
89) [135182] Thanks
by "Hartwell, Martin E, ALINF" <mehartwell@att.com>
90) [135183] TS-830S RECEIVER
by "W2WU" <w2wurjj@verizon.net>
91) [135184] RE: TS-830S

by "Tracy Markham" <tracy@bytemark.com>
92) [135185] Re: Comments on Kenwood TS-830S
by W2AGN <w2agn@w2agn.net>
93) [135186] Re: Comments on Kenwood TS-830S
by "Jeff Mitchell" <jeffmit@datastratinc.com>
94) [135187] TOLERATION
by "W2WU" <w2wurjj@verizon.net>
95) [135188] Re: Etchant Resist
by "Leon Heller" <leon_heller@hotmail.com>
96) [135189] Re: Drake tr7 OT
by Bruce Muscolino <w6toy@erols.com>
97) [135190] Re: Comments on Kenwood TS-830S
by "Winston F. Jones" <winjones@ix.netcom.com>
98) [135191] Re: Drake tr7 OT
by Garey Barrell <k4oah@mindspring.com>
99) [135192] Re: Stabel VF0's
by "Mike Boatright" <ko4wx@mindspring.com>
100) [135193] Rock-Mite VX0 Mods
by NB6M@aol.com
101) [135194] Re: Rock-Mite VX0 Mods
by "Howard Kraus" <K2UD@adelphia.net>
102) [135195] RE: Serial CW Sender noise issues
by "George Heron N2APB" <n2apb@erols.com>
103) [135196] Which frequency counter to buy for QRP projects?
by "H. Sawyer" <gdguy21@yahoo.com>
104) [135197] RE: Which frequency counter to buy for QRP projects?
by "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>
105) [135198] RE: TS-830S radio
by "N8IE" <n8ie@woh.rr.com>
106) [135199] Re: Which frequency counter to buy for QRP projects?
by "John J. McDonough" <wb8rcr@arrl.net>
107) [135200] 38.00035 MHz crystals
by "Tracy Markham" <tracy@bytemark.com>
108) [135201] Re: Which frequency counter to buy for QRP projects?
by "Mark J. Dulcey" <mark@buttery.org>
109) [135202] RE: Which frequency counter to buy for QRP projects?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
110) [135203] K2 Sold
by "NZ8J" <nz8j@woh.rr.com>
111) [135204] Re: What Frequency Counter?
by "Steve Lawrence" <Steve.Lawrence@itwfeg.com>
112) [135205] Re:%20Which frequency counter to buy for QRP projects?
by NB6M@aol.com
113) [135206] Re: Which frequency counter to buy for QRP projects?
by "Lee Mairs" <lmairs@cox.net>
114) [135207] Re: Which frequency counter to buy for QRP projects?
by "Rick Tyler" <rp.tyler@worldnet.att.net>
115) [135208] Re: TS-830S radio

by Bruce Muscolino <w6toy@erols.com>

Date: Sun, 15 Sep 2002 16:07:48 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@lehigh.edu>
Subject: [135094] Re: Etchant Resist
Message-ID: <MABBJOEABOILMKCJCLFCMEHKDJAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mark

I've read that some of the marking pens from Germany are very good for this, particularly those with red ink. No idea why, but reported to work very well.

73, Bob N6WG

Date: Sun, 15 Sep 2002 19:07:11 -0400
From: wkhibbert@juno.com
To: qrp-1@lehigh.edu
Subject: [135095] Re: Etchant Resist
Message-ID: <20020915.190713.-279665.0.wkhibbert@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi, Keith here in the Depths of the Great Bergen Swamp

Yes, nail polish works, and it is the best etch resist I have ever found.

Use a small artists brush and take your time. Use a color that will give you good contrast so you can verify where you have actually put the polish.

Use a color that your wife and/or daughter(s) will find unacceptable, and except to change the color as purple and black become popular yet again and your personal stash disappears from your workshop.

Clean the polish off the finished board with acetone and a Scotchbrite (tm) pad. The polish will flow well enough that you can pre-drill the board and use the drilled holes as a guide to draw the traces in. The

excess polish that flows through the holes can be removed with a quick twist of the drill bit. You can hand-hold the bit for this operation.

The circuit boards for my homebrew 40M rig and the 10 Meter beacon on NQ2RP/B were both made with these techniques.

73, Wm. Keith Hibbert, WB2VU0, TC/WNY ARRL Section
President, Brockport Amateur Radio Klub
"My night light runs more power than my Rig!!!"

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Date: Sun, 15 Sep 2002 17:22:57 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Trevor Jacobs <kg6cyn@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135096] Re: OT:IRLP
Message-ID: <Pine.LNX.4.44.0209151720290.3202-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Trevor, I'm sure your an expert with IRLP and can run circles around me! That's because I don't even know what IRLP stands for. I'm not sure I want to use someting I know zero about. So lets drop the subject.

On Sun, 15 Sep 2002, Trevor Jacobs wrote:

> Hi Gang,
>
> One thing that I'd been meaning to play around with a bit since I bought
> the FT-817 is VHF/UHF stuff. It's the first multi mode rig with VHF/UHF
> capabilities that I've owned. Anyway, I'd been reading a bit about IRLP
> on the web and it seemed like a real neat way of connecting. Turns out
> that my good friend Gerd W2ISB has a node in NY, so have been trying to
> get in touch with him over his reapeater. Also, Glenn WA7SPY has node
> number 386 in Sacramento, and I was able to find Glenn on his repeater
> last night. Was real neat to chat with Glenn, and we had a good time.
> The thought arose, that this might be a neat way for QRPers to gather
> and swap info during events or maybe even have a club meeting over the

> link. Wonder if anyone else would be interested in this? Thanks for the
> OT bandwidth...I'm monitoring node 383...
>
> 73's Trev KG6CYN
> <http://home.earthlink.net/~kg6cyn>
> <http://www.qsl.net/kg6cyn>
>
>
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sun, 15 Sep 2002 19:16:57 -0400
From: "Kevin M., KC8SFJ" <adverseyaw@twmi.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135097] Comments on Kenwood TS-830S
Message-ID: <008701c25d0d\$fd48a630\$45f5d018@magnus>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,
I have the opportunity to purchase a Kenwood TS-830S with ATU and Ext.
Spkr. for \$450+ shipping. My question? Is this a good rig to start out
with? Can the drive be turned down to only output 5 watts or less? And
is this a fair price? Judging by local hamfest prices it seems a little
low. What are your opinions?
Thank you for your comments.

73,

Kevin, KC8SFJ

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|=====|  
| QRP-L      #2366 - member since October/2001 |  
| QRP-ARCI #11248 - member since May/2002      |  
| FISTS      #9293 - member since July/2002    |  
| HR          - member since September/1965    |  
|=====|
```

AdverseYaw@twmi.rr.com <-- My email address
AdverseYaw@bigfoot.com <-- My forwarding address
Quote of the day--

"Would you tell me, please, which way I ought to go from here?"

"That depends a good deal on where you want to get to," said the Cat
- Lewis Carroll

Date: Sun, 15 Sep 2002 19:20:38 -0400
From: Kenneth Hoglund <hoglund@wfu.edu>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135098] eHam down?
Message-ID: <3D8515C6.D919E80B@wfu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sorry for the bandwidth, but is eHam out of commission? Been trying to check out some reviews and keep getting a notice that the server can't be found.

73
Ken KG4FGC

Date: Sun, 15 Sep 2002 19:23:16 -0400
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [135099] Rock-Mite wrap-up plus US Navy heterodyne freq meter...attn: W5YR
Message-ID: <F865tNkz5TPeMQsT01j00009bb3@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Well, knocked off my first two Qs on 14059.5 kHz with the new Rock-Mite-20 this evening.
Answered WB9WZN's CQ and chatted with Bill, in Gary, IN for a few minutes, he was 599, I was 569.
Immediately after my final dit dit with Bill...Phil, K2NPN in Marcy, NY called ME! Phil gave me 579! He was 599 here in SW VA. Phil was operating from club station W2M0.

My two stock freqs are approx 14058.8 and 14059.5 kHz.
Power out is 300 mW(measured with WM-2) using Heathkit IP-18 power supply from early 1970's set for about 13vdc and current limit set at 500mA (its max).
As mentioned in previous post, am also using Heathkit HFT-9B QRP antenna

tuner and Heath/Zenith HDP-1396 headphones.

For the first two Qs, used the Lionel/US Army J-38 straight key...

I love the Rock-Mite's built-in keyer...just felt like including a little of my personal history(cut my teeth on a J-38) in the first few Qs :)

I like to think of the Rock-Mite as my favorite 'six-transistor' radio.

Hey, George, W5YR...never told you and the gang 'bout the US Navy Dept, Bureau of Aeronautics, model LM-18 frequency indicating equipment, including the type CBLC-74028 het. freq. meter I acquired last year. I think it must be similar to the US Army's BC-221 and it came with an attached matching power supply AND the original calibration tables and instructions. It's a real honey...very stable and accurate...plus, it's battleship gray :0)

73.

Bill, N4QA

<http://www.qsl.net/n4qa/>

ps

Due to spam countermeasures, I see responses via this list's archives and via personal contacts list only.

Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

Date: Sun, 15 Sep 2002 18:26:41 -0500

From: Lew Paceley <lew@paceley.com>

To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>

Subject: [135100] OT: WWII, Korea, Vietnam, Gulf Vets - Some School Help Pls

Message-ID: <002a01c25d0f\$596e7920\$6501a8c0@swbell.net>

MIME-version: 1.0

Content-type: text/plain; charset=iso-8859-1

Content-transfer-encoding: 7BIT

Folks,

Please excuse the OT topic but I'm trying to help my 16 year old daughter, Jaclyn. She has a school assignment to interview a war vet and write a report. Sadly, the last vet in our family (Irving Woodside, WWII - Navy) passed away 2 months ago.

If we could impose on one of you to share your dearly-valued piece of world history in a telephone interview (Jaclyn will call you) it would be very greatly appreciated.

Please reply directly off list and tnx for the bandwidth.

72/73,
Lew
N5ZE

Reply to: lew@paceley.com

Date: Mon, 16 Sep 2002 01:43:55 +0200 (MET DST)
From: dl6aaf@t-online.de (Uwe Meier)
To: qrp-l@lehigh.edu
Subject: [135101] Fwd: (OQRPWW 111) 12th OQRP-Contest: comments
Message-ID: <200209152343.BAA00422@joringel.t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

From: DJ7ST @ DB0ABZ.#NDS.DEU.EU

14-Sep-2002

QRP-CONTEST-COMMUNITY (qrpcc)
c/o Dr.Hartmut Weber, DJ7ST
Schlesierweg 13
D-38228 SALZGITTER
Germany

12th Original QRP Contest (06/07-Jul-2002), Comments

Dear OQRP-Contest friends,

after the atmosphere's QRN-"meanness" of May (Minimal Art Session) it had to be the ionosphere's turn during the 12th OQRPC, the 30th anniversary after a certain DJ7ST in "QRV"-magazine invited all to take part in a QRP contest.

Because of the after all drastic influence on the contest (some OPs even suspected a faulty RX of their's) I asked "Mr. Ionosphere", DL9ZEA. Here is his expert answer (mni tks dr Horst):

- > On 03rd July between 0208 and 0216UTC there occurred an X-flare from
- > sunspot region 10017 plus two M- and one C-flare. The cloud of sun
- > matter started to arrive here on 05th July, the geomagnetic index
- > climbed to 14, and the solar wind increased.
- > Earth's magnetic field was deformed quite a bit. High induction

> along the magnetic field lines caused huge voltages and field
> strengths. Propagation became very unreliable and abnormal, with
> pronounced fading. The ionosphere "pumped".
> Kp stayed around 4 most of the time. This results in an Ak value
> of 21, i.e. a disturbed magnetic field. Generally speaking, distur-
> bances become more probable with K above 3 or 4.
> Then especially low power stations often disappear in QSB, the usual
> situation tilts. Stations audible well while propagation is "normal"
> are weaker or inaudible, and vice versa.

So it comes as no surprise that many comments concerned conds:

- - - - -

Please better conds next year... (PA3HBX)

Heavy QRN, strong QRM, slow QSB In short: bad condx! (SM5DQ)

14Mhz almost dead. Went out to check whether the antenna is still standing.
Nearer the equator 20m seemed to be not as empty as up here in the north.
All in all last year it went better, despite the QRN (DK3UZ)

Hand-made CW, w/o machine crutches - is there anything else?!!
...tks to all OPs who thought my MIKROVERT generated signal from a scant
single watt and an antenna shorter than 1m was strong enough to copy (DJ6F0)

This is the first time I took part in a QRP contest and I have been
surprised about the beauty of it. Here power is not important, only
the ability of the operator, a good TRX and antenna... (I2AZ)

Sporting a just acquired FT-817 (fm HAM RADIO 2002). Puzzling with new menu
didn't help with score (I1EFC)

...miserable propagation, lots of QRN, faulty Argonaut II, and in the
evening insufficient signal handling capability of a NorCal 40A. Definitely
need to install the Murata filter (DL2DWP)

My first participation in an interesting contest (Y06EX)

Would have liked to take part in the contest for longer, weren't it for
a clash with the "family contest"... :-) (DL2HRF)

Some more CW experience compared to Dec 2001. However, less activity..(PA0FEI)

Took part for 4.5hrs, the family confiscated the remainder (DL90E)

On 6th July I signed DL8ABH from home, next day as OZ/DL8ABH (DL8ABH)

At first I intended only antenna experiments ... antenna was a 15m long fishing rod... (DL5SE)

...conditions on Sunday morning were such that I started to rebuild my RX frontend to obtain better sensitivity, but without luck, of course.. (OZ9QM)

Bad condx on 20m (9A3ML)

What a great idea this "head & hand" CW. After contest my coding had improved much (PA0RDT)

Key was made in 1941: Needed occasional breaks in order to massage my index finger... expected the QRP-test to be a pleasure, QRN taught me otherwise (DK5RY/DL0NZ)

It was nice to see, that operation with low power seems to be increasing. The conditions were very unstable at times with deep QSB and even long black-out periods (OZ9KC)

On holiday in Ljungby I set up my antenna on Sunday and heard weak signals from stations in the QRP-contest... (SM/DJ7RL)

Propagation practically made it a 40m single band contest. Interestingly there always were just a few calling stations, but own calls rarely went unanswered. (DL6AAF)

Was QRV /p with indoor magnetic wire loop from SPRAT #109 (PA/DL9ZBN/p)

Despite QRN and poor conds ... cuagn in the next QRP-contest (DJ3KK)

Lost my 80m ant in a storm 4 days before contest (LZ1IQ)

Extremely poor condx this time! (EA1KC)

Used a simple DC RX which I built on the Wednesday preceeding the contest, so I lacked experience with this type of RX. Just the same, it again was a great contest (DL2BXC)

I could only work for two hours, but enjoyed beeing with other QRP boys. I hope to improve my score next Dec (EA3EZ0)

Propagation, especially on 20m, wasn't at its best this time... (DK1LG)

As always - a nice and friendly contest. Fair conditions on the bands (OZ3AAA)

...came across the contest by chance! Bands conditions very poor indeed - but good fun nevertheless (G8IB)

Good conds on Saturday but very poor on Sunday, especially on 20m (G3VIP)

My equipment: THREE monoband sets with 11 valves each, identical circuits.
>From 0918 UTC no more stations because of very bad conditions (SP3BOL)

Sri, made only 4 QSO because I took part in the VHF/UHF-Contest. Tested my new GM47-"DZD" (OK1DZD)

Unfortunately conds not very good (DL4LBB)

...regrettably propagation wasn't as good as in December (DL1KAS)

I found condx very poor on 20m and was surprised many stns gave 599 like in other contests (F6ACD)

This time I participated only sporadically. Away on a day trip with xyl... :-(((DF2SJ)

All parts over 50 years old. Chassis from BC-radio. Nice time! (SP6LV)

Basically a Tramp 8, adapted to the junk box (DL8LRZ)

20m not so good but still enjoyable, thank you! (GM4BKV)

My "Biggest Bang For The Buck" TX with 20 watts still under construction.
SRI for COM category (DK9KR)

Condx especially on 20 were not too good. The K2 was doing a fine job (PA0RB0)

Despite determination I worked only one VLP station... (HB9DE0)

I ran the contest just for fun - together with VHF/UHF-fieldday (OK1DMP)

...conds not at their best here, but was again delighted to meet many CW friends (HB9RE)

Propagation rather mediocre (DJ3LR)

Our house party ... heavily curtailed contest activity, sri. More next time (DJ4VP).

Many thanks for the contest and the adjudication (F5IQJ)

My xyl's birthday with big garden party naturally reduced the contest to unimportance (DL7VPE)

Big lull between 11 and 12UTC, my 1w-signal inundated in QRN and absorption ... no answers (DL1JGA)

...like to submit my log even though just a few QSOs, so others will get full points (DL1EH)

Mediocre propagation, but today three hours of participation (F6ABI)

Not a real winner this time: Very weak signals, QSB, QRN, extremely variable conds... (DJ5AA)

Very noisy condx due to thunderstorms, not so good for QRP (DL2DSD)

All self made from own design. Good if it works, 'kaputt' if it doesn't. (DL1JAK)

Sometimes fb signals, and then only heavy noise lasting hours... (DL9CE)

Often a continuous carrier on 7030kHz, SSB traffic in CW subband. Apart from that I had fun again (DK9EA)

Some conds! Felt like under a hood made from lead (DL9QM)

Worst 20m-conds I ever experienced in an OQRP-contest... (DK8SX)

At least took part, ignoring an inflamed throat (DL1AVD)

My worst score but one. When I actually heard someone, he didn't hear me. I feel ashamed because of my poor result and the abysmal conds. It'll be better again in winter! (DL1HTX)

Hello, what a trying business... (DL2NH)

Sunday 0915: S8 sun noise on 20 & 40m. Hf black-out! (PA9RZ)

Many thanks for the contest. I enjoyed every QSO (OH7QR)

A pity I met only a few contest participants on 80m Sunday, though signals were stronger than during the night and less QRN (HB9HQX)

Fun to try my new K1 for a few hours. Really cool (OZ7BQ)

...apart from 80m extremely variable signal strengths... Cancelled the fun part... (DL1ARH)

Worked like a spark in the 50s, with straight key and without auxiliary equipment... (DL9GWA)

A record!! 10 QSO in 1/2 hour while average radio activity is 1 QSO per month... but don't want to miss that opportunity (ON4KAR)

- - - - -

Some interpreted the new "handmade" categories incorrectly: They DON'T imply only straight keys are allowed! CW from a squeeze keyer are also formed by "head & hand". Only keyboards are not permitted in the "handmade" categories.

Upcoming QRPCC event is the "Homebrew & Oldtime-Equipment Party" on the 3rd Sunday of November. I.e. plenty of time to finish a new homebrew project. Maybe "Grandmaster" Ha-Jo, DJ1ZB's TX, which to my pleasant surprise was published in cq-DL 09/02, finds lots of constructors? For those without a 3.58MHz resonator in their junkbox: A crystal will certainly suffice, it may even be more stable. A 3.579MHz crystal from electronic junk will be fine for initial experiments and is also available for just a few pennies. Have fun!

73/2 "Hal", DJ7ST

Date: Sun, 15 Sep 2002 19:40:25 -0400
From: "W3CDE Jerry L." <w3cde@bellsouth.net>
To: david.sarrafa@paonline.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135102] Re: Galena doesn't work!
Message-ID: <3D851A69.77FBE5B1@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I can remember using the old Gillette Blue Blade for razors as a Fine diode for detectors. Gee bringing back fond memories 8-).

Jerry
W3CDE

"David B. Sarraf" wrote:

>
> Leon:
>
> Just a guess, but it may make a difference if you break the lump open
> and expose the interior, or acid-etch the outside it like a steel
> samples are prepared for micrographic grain analysis.
>

> I had a piece of 3mm dia. nichrome wire which I saved because it looked
> like it would make a good crystal radio detector. It had been removed
> from service as a heating element because it had broken. The outside
> was dull, but the broken surface literally glittered with grain
> boundaries. The heating had caused grain growth and embrittlement
> which eventually led to the wire's demise. In contrast with the
> relatively amorphous exterior of the wire, the grains and boundaries
> would provide an abundance of high surface energy locations that
> would work well as a point contact diode. I never did test the wire
> and I don't know if the barrier voltage would have been too high (as
> it was with some older crystal diode materials such as silicon carbide).
>
> I can't back this up with experiment but do know that theory says it
> should help.
>
> Dave Sarraf

Date: Sun, 15 Sep 2002 19:44:22 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: nkennedy@tcainternet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135103] Re: Hooray! New rig comes to life; takes bite out of the
ether ...
Message-ID: <3D851B55.F6FCBB82@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The NE4040 started life as a club project by the New England QRP Club in
about 1995. It was written up in their newsletter. I first saw it at
Dayton. I ordered a board and started to build it.

A testament to Dave Benson's design, I placed very well in the
Pennsylvania QSO contest working only one day of the two. At the the
radio had an open RF choke that cut its sensitivity better than in
half! 0 packaged mine is a 2" X 4" x 6" minibox.

This radio became the grandfather to all the SWL radios that were CW
only, including the SW30, the SW40, the + series and the rest. It is a
very solid design and is still highly recommended!

Date: Sun, 15 Sep 2002 19:46:12 EDT
From: IamSF5@aol.com
To: k5di@zianet.com, qrp-1@lehigh.edu
Subject: [135104] Re: OT:IRLP
Message-ID: <11d.16f95b53.2ab675c4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 9/15/02 7:21:43 PM Eastern Daylight Time, k5di@zianet.com writes:

<<
Hi Trevor, I'm sure your an expert with IRLP and can run circles around me! That's because I don't even know what IRLP stands for. I'm not sure I want to use someting I know zero about. So lets drop the subject.

>>
I RUN LOW POWER
Bob AF2Q

Date: Sun, 15 Sep 2002 19:45:12 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <w3cde@bellsouth.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [135105] Re: Galena doesn't work!
Message-ID: <00db01c25d11\$f0c27c20\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> I can remember using the old Gillette Blue Blade for razors as
> a Fine diode for detectors. Gee bringing back fond memories
> 8-).
>
> Jerry
> W3CDE

I remember that!! The 'Blue Blade' worked because it was some kind of cobalt oxide or something that was non-linear if you carefully poked on it.

Mike

Date: Sun, 15 Sep 2002 19:48:24 -0400
From: Nils R Young <nilsbull@juno.com>
To: QRP-L@lehigh.edu
Subject: [135106] Another DC trx project & other distractions
Message-ID: <20020915.194836.-1097.0.nilsbull@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

Well, Cindy let me out of the house for a couple hours Saturday after workin' me pretty hard prepping for her office folks coming to party. I sneaked the young 'n out with me too, so we went to Roger's for parts, the local CD mart for toons & the local Steak & Shake for a malted. Got home just in time for more orders.

While Cindy's work peeps started to arrive, I got out all my junk, the parts I'd got & some other stuff & started puttin' the 40-9er together. Ok, another 40-9er together. Got it workin' this afternoon, between weight-lifting bouts out in the garage.

Works pretty well, the 40-9er do. About a watt out with soft batts & usin' one of Dan's (of DSP&K) "universal CW filters, get a pretty decent tuning range &c out of it. No contacts yet. I'm still trying to figure out how to get a reasonable shift between Tx and Rx. I bet it has something to do with parts I modified . . . like usin' a 2N2222 metal for the 2N3094 . . . but I'm too bagged from tryin' to move printing equipment to care right now.

In the process of all this: I really have to say that for DC trx stuff, the Hands assortment of boards that I bought back in 1987 (when the young 'n was on his way to bein' hatched) is still my favorite DC radio. Havin' the RIT/offset makes a big difference in how I hear stuff.

Of course, the Rock-Mite is sittin' here waitin' for the special enclosure what I ordered from Doug Hauff, so that's another soon-enough project. And it (the Rock-Mite) is a very nice radio for having an offset like it does. Maybe I should just get on the air & stop building stuff and blowing it up.

If the desk was covered with all the clipped off parts of stuff & junk & bags of stuff what's been poured back from one bag into another & all that, I'd probably get on the air. I know there's a key in there somewhere. And the 718 will do .5 W very nicely. If I got industrious.

Now, do any of you loonies want something like 150 lbs of printing metal. Strip material, borders, some sorts of 48 pt Century Expanded, stuff like that? I need the space & after the hernia operation (and smashin' my fingers trying to move it with out stretchin' for another hernia operation) I've had enough of this. There's even some 1 pt strip material out there.

Yeah, one-point metal. In type metal. Like lead & antimony cast on a Monotype material caster. It's so thin it splits into pieces just lookin' at it. Which means it probably turns into a very nice powder. Which is why I'm wantin' to get rid of it. Why heck, you can come up here and get the entire deal & a gally cabinet too! With galleys!

Become an admiral of the Roman Legions! You'll have more galleys than you'll know what to do with!

Oh, one more thing: Anybody know where I can find those neat-o heat sinks that come with the Foxx-3 kits? I mean besides Bill K, whom I'm not about to bother for such sillyness. Unless he wants to trade say 4 of 'em four all the 1 pt strip material.

See you crazies on the air . . . once I find the key again . . .

73

Nils

. . . maybe I can find one of them cap-and-ball shooters who'll take the metal . . . one what don't know about how it fouls the rifling . . .

Nils R. Bull Young -- W8IJN -- La Estancia de los Guajolotes Sonrientes
<http://w8ijn.tripod.com> -- <http://members.fortunecity.com/nilsbull>
"The island is closer than your memories are." -- Ian G. Bull Young, 15 Feb 2002

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Date: Sun, 15 Sep 2002 19:55:16 -0400

From: Bruce Muscolino <w6toy@erols.com>

To: wo7t@juno.com

Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [135107] Re: Etchant Resist

Message-ID: <3D851DE4.962CA826@erols.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

In the old days (ca. 1960 - 1980) we used to use nail polish, masking tape, rub down materials, etc. Use anything that will keep the portions of the board you don't want to etch dry!

73

Date: Sun, 15 Sep 2002 20:05:06 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: adverseyaw@twmi.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135108] Re: Comments on Kenwood TS-830S
Message-ID: <3D852032.775E5C69@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

At the risk of offending the members of this list, the TS830 is far more radio than you will get from any QRP. kit. It is a complete 160 through 10 meter transceiver that will produce a 100 watt output signal easily. It also works on CW and SSB! I have a TS830 and I will say unequivocally, it is worth the money. Adding the tuner and other accessories only makes it a better deal.

Can it be turned down. No, at least not to 5 watts. It uses 6146 final tubes, they can be clamped down by the ALC control, but reaching 5 watts without using a battery is a tough sell. There is a mod that you can do that involves adding a 9 volt battery to the external ALC circuit to reduce power. You can find information on this on the QRP ARCI website.

Out of curiosity, why must you reduce power to 5 watts? No one on this list (with any intelligence) will think you are a bad person! It is a challenge, but getting some experience with ham radio is a more important challenge!

73

Date: Sun, 15 Sep 2002 19:07:13 -0500
From: "Brian" <brian@iquest.net>

To: "QRP-L" <qrp-l@lehigh.edu>, <fpqrp-l@fpqrp.com>
Subject: [135109] IT IS ALIVE!!! Rockmite
Message-ID: <003f01c25d15\$03361e90\$89602bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The Chinese embassy just called and they have requested I control the happy dancing here in Indiana as it is making some very strange seismic patterns in Beijing.

The Rockmite with the bad hum has been healed, and I fixed a couple more boo boos I made during the late night construction period.

I just worked W9WI in the Tennesse QSO Party....I of course received a 599. <grin>

Douglas is in Pleasant View TN. I'm pushing about 550 mW, maybe 600 mW...hard to tell on my equipment (Flying Pig NoGA Watt Meter from FDIM Buildathon....MAN, I have used the devil out of this little dude). So we got about 230 miles out of that and the attic dipole. For 7PM on 40m in the middle of a noisy contest, that's OK with me.

Yay!

=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57
=====

Date: Sun, 15 Sep 2002 17:12:21 -0700
From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135110] Re: OT:IRLP
Message-ID: <007f01c25d15\$bac27e00\$7ce3b3d1@tjacobs>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

IRLP - Internet Radio Linking Project - check www.irlp.net for information. BTW I think it's a better subject than some of the crap we've had on here IMHO. Could be a lot of fun, and I'd hardly call myself an expert since I just started playing with it.

73's Trev KG6CYN
<http://home.earthlink.net/~kg6cyn>
<http://www.qsl.net/kg6cyn>

----- Original Message -----

From: Karl F. Larsen <k5di@zianet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Sunday, September 15, 2002 4:22 PM
Subject: Re: OT:IRLP

>
> Hi Trevor, I'm sure your an expert with IRLP and can run circles
around
> me! That's because I don't even know what IRLP stands for. I'm not
sure
> I want to use someting I know zero about. So lets drop the subject.
>
>
> On Sun, 15 Sep 2002, Trevor Jacobs wrote:
>
> > Hi Gang,
> >
> > One thing that I'd been meaning to play around with a bit since I
bought
> > the FT-817 is VHF/UHF stuff. It's the first multi mode rig with
VHF/UHF
> > capabilities that I've owned. Anyway, I'd been reading a bit about
IRLP
> > on the web and it seemed like a real neat way of connecting. Turns
out
> > that my good friend Gerd W2ISB has a node in NY, so have been trying
to
> > get in touch with him over his reapeater. Also, Glenn WA7SPY has
node
> > number 386 in Sacramento, and I was able to find Glenn on his
repeater
> > last night. Was real neat to chat with Glenn, and we had a good
time.

> > The thought arose, that this might be a neat way for QRPers to
gather
> > and swap info during events or maybe even have a club meeting over
the
> > link. Wonder if anyone else would be interested in this? Thanks for
the
> > OT bandwidth...I'm monitoring node 383...
> >
> > 73's Trev KG6CYN
> > <http://home.earthlink.net/~kg6cyn>
> > <http://www.qsl.net/kg6cyn>
> >
> >
> >
>
> --
>
> - Karl Larsen k5di Las Cruces,NM Az ScQRPions -
>

Date: Sun, 15 Sep 2002 20:21:09 -0400
From: "Lee Mairs" <lairs@cox.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [135111] Re: OT:IRLP
Message-ID: <005201c25d16\$f4bdfa70\$6901a8c0@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You can keep your head stuck in that New Mexico sand. I, for one, would
like to know what IRLIP is.
Lee, KM4YY

----- Original Message -----
From: "Karl F. Larsen" <k5di@zianet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, September 15, 2002 7:22 PM
Subject: Re: OT:IRLP

>

> Hi Trevor, I'm sure your an expert with IRLP and can run circles around
> me! That's because I don't even know what IRLP stands for. I'm not sure
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> >
> >
> >
>
> --
>
> - Karl Larsen k5di Las Cruces,NM Az ScQRPions -
>
>

Date: Sun, 15 Sep 2002 20:26:42 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: ki6ds@dospalos.org
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [135112] Re: Stabel VFO's
Message-ID: <3D852542.15B23AB7@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Again I must say, if there was one VFO design that far outperformed all others everyone would be using it! A VFO is part of a system, it may be part of a receiver or a transmitter or a transceiver. In any case it is more dependent on

1. Circuit type (Colpitts, Hartley, etc)
2. Board layout, and
3. Mechanical stability

for its electrical stability than whether the designer used a 100 pF capacitor or a 180 pF capacitor.

If the object of this exercise is to melt solder, they by all means let us do so, but don't try to sell it as a scientific experiment when it is not!

If you want to make a pseudo scientific experiment out of it, etch 100 boards of various types and sell them with parts kits to allow the builders to build the same designs!

Establish some realistic stability standards and measure all the entries to those standards. Don't depend on the human ear, it is far to accepting. Use a counter at various time periods after a cold start. Only this way can you define whether one is better than another!

Personally I'd bet there is not a clear winner! Please note, I am not against building anything. I do think that the building should yield something besides burned fingers though!

73

Date: Sun, 15 Sep 2002 19:32:22 -0500 (EST)
From: <igeq100@iupui.edu>
To: Leon Heller <leon_heller@hotmail.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135113] Re: Galena doesn't work!
Message-ID: <Pine.GS0.3.96.1020915192817.22091A-100000@jade.iupui.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi, Leon -

I remember from my crystal set days that if I used the SIDE of the cat's whisker (mine was phosphor bronze, if I recall) to contact the galena rather than the point, it worked much better. Maybe a long cylindrical

contact makes more effective junctions simultaneously. I also had some success with a Gillette Blue Blade and a graphite pencil lead.

Good luck!

Rich, WB9LPU

Date: Sun, 15 Sep 2002 19:40:31 -0500
From: "George, W5YR" <w5yr@att.net>
To: w6toy@erols.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135114] Re: Comments on Kenwwod TS-830S
Message-ID: <3D85287F.6B256AF9@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bruce,

Batten down the hatches for the oncoming storm of protests from the K2 gang. I think that you had some of the much older and smaller single-band rigs in mind when you typed that . . . those comments clearly are out of date and do not apply at all to the K2.

Many of our QRP operating events specify a maximum power output from the transmitter of 5 watts. Perhaps that accounts for the general interest on this reflector in that particular power level.

Those who would use more than 5 watts during a Fox Hunt or other competitive event would certainly lose the respect of the rest of the Hounds. And they *would* be a "bad person."

Actually, most of our list brethren do have a usable level of intelligence.

Hope to hear you taking part in the Fall/Winter Fox Hunts, Bruce, so that you can be a part of one of our most popular QRP operating events. But, five watts is the limit! <:}

73/72, George
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR - the Yellow Rose of Texas
In the 57th year and it just keeps getting better!

Bruce Muscolino wrote:

>
> At the risk of offending the members of this list, the TS830 is far more
> radio than you will get from any QRP. kit. It is a complete 160 through
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> challenge, but getting some experience with ham radio is a more
> important challenge!

Date: Sun, 15 Sep 2002 19:49:17 -0500
From: "George, W5YR" <w5yr@att.net>
To: k1cl@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [135115] Re: QRP Afield - Clarification of Multi-Club Station rule.
Message-ID: <3D852A8D.DCC12DF9@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Chuck, I read the reissued rules and I still cannot decide from the rules alone what a group of operators can and cannot do. So, let me ask the question:

Can five of us gather here at my place, put up some antennas and set up two or three stations and all operate using our individual callsigns on any/all bands concurrently, with any number of transmitters on the air at the same time?

Not a club activity - not using a club callsign - not entering logs as a club - submitting as many logs as there are stations operating under the operator's own callsign - just five guys that want to operate together but as individual stations at the same general location.

Is that OK?

Thanks!

--

73/72, George

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe

Amateur Radio W5YR - the Yellow Rose of Texas

In the 57th year and it just keeps getting better!

Paul Womble wrote:

>

> Chuck several of us would like to know multiple transmitters are still
> out? For our group having 2 transmitters, on different bands, provides
> the maximum op time for everyone.

>

> Paul K4FB

Date: Sun, 15 Sep 2002 20:50:25 -0400

From: JD Delancy <W1JD@drix.net>

To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>

Subject: [135116] OT:IRLP

Message-ID: <3D852AD1.84A9CEAE@drix.net>

MIME-version: 1.0

Content-type: text/plain; charset=us-ascii

Content-transfer-encoding: 7BIT

Easy now. IRLP (and EchoLink -- www.echolink.org) are fun things and very useful.

No need to fling around barbs.

Trevor Jacobs wrote:

>

> IRLP - Internet Radio Linking Project - check www.irlp.net for
> information. BTW I think it's a better subject than some of the crap
> we've had on here IMHO. Could be a lot of fun, and I'd hardly call
> myself an expert since I just started playing with it.

>

> 73's Trev KG6CYN

> <http://home.earthlink.net/~kg6cyn>

> <http://www.qsl.net/kg6cyn>

>

> ----- Original Message -----

> From: Karl F. Larsen <k5di@zianet.com>

> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Sent: Sunday, September 15, 2002 4:22 PM
> Subject: Re: OT:IRLP
>
> >
> > Hi Trevor, I'm sure your an expert with IRLP and can run circles
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> > me! That's because I don't even know what IRLP stands for. I'm not
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> > I want to use someting I know zero about. So lets drop the subject.
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> > On Sun, 15 Sep 2002, Trevor Jacobs wrote:
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> > > Hi Gang,
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> > >
> > >
> >
> > --

> >
> > - Karl Larsen k5di Las Cruces,NM Az ScQRPions -
> >

Date: Sun, 15 Sep 2002 20:52:44 -0400
From: JD Delancy <W1JD@drix.net>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [135117] Re: OT:IRLP
Message-ID: <3D852B5C.F945C2A3@drix.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

IRLP and Echolink are programs and hardware to link the internet with VHF/UHF repeaters or simplexes. IRLP is more complex, more secure and takes a bit more than EchoLink. Both have their qualities

Lee Mairs wrote:

>
> You can keep your head stuck in that New Mexico sand. I, for one, would
> like to know what IRLIP is.
> Lee, KM4YY

>
> ----- Original Message -----
> From: "Karl F. Larsen" <k5di@zianet.com>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Sunday, September 15, 2002 7:22 PM
> Subject: Re: OT:IRLP

>
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> > - Karl Larsen k5di Las Cruces,NM Az ScQRPions -
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Date: Sun, 15 Sep 2002 21:07:15 -0400
From: JD Delancy <W1JD@drix.net>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [135118] Re: OT:IRLP
Message-ID: <3D852EC3.55D0D59B@drix.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

Some more info: <http://cqinet.sourceforge.net/>

JD Delancy wrote:

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useful.
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> No need to fling around barbs.
>
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> > From: Karl F. Larsen <k5di@zianet.com>
> > To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
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> > > >
> > > >
> > > >
> > >
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> > >
> > > - Karl Larsen k5di Las Cruces, NM Az ScQRPions -
> > >

Date: Sun, 15 Sep 2002 21:17:02 -0400
From: "John O. Newell" <jnewell@attbi.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135119] FS: MP-1 Superantenna + Accys
Message-ID: <3D85310E.87E2FB8F@attbi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I bought this for travel use which (for better and worse)
has not materialized. It's essentially unused and in like
new condition. Included are:

MP-1 Antenna w/counterpoise sectioned (threaded) whip and
mounting bracket
80m coil
FT-817 side-mounting bracket
Telescoping whip

List price on these is \$200 plus \$10 shipping. I will ship
surface within CONUS for \$175. I have the original box but
no instructions (W6MMA was not furnishing any when I bought
this a couple of years ago, but I believe they're
downloadable from sites on the web).

Please contact me simplex at KB1FPM @ arrl.net with any
questions.

Tks and 73
John Newell KB1FPM

Date: Sun, 15 Sep 2002 20:32:47 -0500
From: "Brian" <brian@iquest.net>
To: <igeq100@iupui.edu>, "QRP-L" <qrp-l@lehigh.edu>

Subject: [135120] Re: IT IS ALIVE!!! Rockmite
Message-ID: <002901c25d20\$f6fce260\$3d632bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well,

My humm problem seems to come from using a wall wart for power. I put it on gel cell and it's fine. Take it to the shack and plug it into my little Radio Shack 1A regulated supply and NO HUMM.

So I don't really know. I just got the RM20 in the mail, this one here is the RM40. 7039.5 and 7040.3 appear to be my two freqs. They seem to be overly busy right now. <grin>

I hope to have both of mine done, they are no where as neat as yours, you've done a masterful job combining the RM with the paddles, and I LOVE the blue.

I think I will start my presentation with "How much does it cost to get on HF?". This is a very neato design. Dave is a smart guy to say the least.

73 de KB9BVN

----- Original Message -----

From: <igeq100@iupui.edu>
To: "Brian" <brian@iquest.net>
Sent: Sunday, September 15, 2002 7:47 PM
Subject: Re: IT IS ALIVE!!! Rockmite

> Brian -

>

> By the way, how did you solve the hum problem - I have been
> running mine from a gel cell to minimize the hum. Any suggestions?

>

> Rich

>

>

>

>

Date: Sun, 15 Sep 2002 19:51:41 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Trevor Jacobs <kg6cyn@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135121] Re: OT:IRLP
Message-ID: <Pine.LNX.4.44.0209151949460.3765-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Thanks Trevor, I wondered and think I heard of that a few weeks ago. I will go to the web site and see if someone using Linux can play that game.

On Sun, 15 Sep 2002, Trevor Jacobs wrote:

> IRLP - Internet Radio Linking Project - check www.irlp.net for
> information. BTW I think it's a better subject than some of the crap
> we've had on here IMHO. Could be a lot of fun, and I'd hardly call
> myself an expert since I just started playing with it.
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> <http://www.qsl.net/kg6cyn>
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> ----- Original Message -----
> From: Karl F. Larsen <k5di@zianet.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Sent: Sunday, September 15, 2002 4:22 PM
> Subject: Re: OT:IRLP
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> >
> > - Karl Larsen k5di Las Cruces,NM Az ScQRPions -
> >
>
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sun, 15 Sep 2002 20:57:01 -0500
From: "Rob Matherly" <w0jrm@arrl.net>
To: <qrp-l@lehigh.edu>, <soc@mailman.qth.net>
Subject: [135122] Neat boot manager
Message-ID: <005a01c25d24\$8fe74760\$8d11a541@jimrob>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I know you guys that are on the pig list are probably sick of hearing me talk about this, but I gotta share with other groups too :-)

Saw this awesome boot manager on the Screen Savers the other night. It's called XOSL and you get it at <http://www.xosl.org>. Fully graphical, tons of options you can setup, and it even comes with a partitioning program.

I don't have any relation to the program, just want to let others who dual-boot in on a program that's made my life a lot simpler :-)

72/73/oo
Rob, w0jrm

=====
Visit my website! <http://www.qsl.net/w0jrm>
=====

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.386 / Virus Database: 218 - Release Date: 9/9/02

Date: Sun, 15 Sep 2002 22:03:22 -0400
From: JD Delancy <W1JD@drix.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135123] Re: OT:IRLP
Message-ID: <3D853BEA.28C6523@drix.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

Linux is THE system for IRLP.

"Karl F. Larsen" wrote:

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> > ----- Original Message -----
> > From: Karl F. Larsen <k5di@zianet.com>
> > To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
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>
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>
> - Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sun, 15 Sep 2002 21:07:19 -0500
From: Lew Paceley <lew@paceley.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Cc: adverseyaw@twmi.rr.com
Subject: [135124] Re: Comments on Kenwwod TS-830S
Message-ID: <004901c25d25\$c9e50dc0\$6501a8c0@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=Windows-1252
Content-transfer-encoding: 7BIT

Hi Kevin,
The 6146-based TS830S has a drive control that can be used to reduce the power to 5 watts or less. No external circuitry is required. I'd be happy to send you the written adjustment procedure for the TS820S, which should be identical to what's required for the TS830S, if you are interested.

The TS830S has a very decent (ham band only with 10 MHz WWV) solid-state receiver, BTW. When you consider that the power supply is built-in, you are getting a very capable ATU (AT-230), and a matching external speaker, \$450 seems like quite a fair deal.

You may want to ensure that the rig has built-in narrow CW filter(s)...I _think_ there was one for each IF frequency (9MHz/455kHz?). Also, if you use a keyer you'll need an external keyer that can key the negative grid voltage or you'll need to build a one transistor keying adapter. The keying is relay based and is "semi-QSK". Finally, while the 830 has RIT/XIT, it only has a single (analog) VFO with a digital display.

For more info, this site has manuals you can download/view:
<http://myweb.tiscali.co.uk/martin.atwsm/TS830S.html>

GL es have fun!

72/73,
Lew
N5ZE

Date: Sun, 15 Sep 2002 20:12:52 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-l@lehigh.edu
Subject: [135125] Linux talking over the internet
Message-ID: <Pine.LNX.4.44.0209152008110.3765-1000000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I was directed to this web site which is a main one for linux software and I d/l and will install a "bridge" which I can't use but hams in the area can use it seems. It appears to be new stuff for Linux so not sure what will happen, but I d/l the tarball and will compile and load the software now.

More when I learn more...

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sun, 15 Sep 2002 21:12:22 -0500
From: Dave Gingrich K9DC <gingrich2@dcg.org>
To: k5di@zianet.com

Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135126] Re: OT:IRLP
Message-ID: <5.1.0.14.2.20020915211045.021550c0@172.22.1.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 19:51 9/15/2002 -0600, Karl F. Larsen wrote:

>Thanks Trevor, I wondered and think I heard of that a few weeks ago. I
>will go to the web site and see if someone using Linux can play that
>game.

Yep Karl, IRLP runs on Linux ONLY.

=====
Dave Gingrich, K9DC - Indianapolis, Indiana USA
K2 #2211, K1 #931, QRP-L #2376, ARS #1109,
FPQRP #389, IRLP 473/573, k9dc.ampr.org
=====

Date: Sun, 15 Sep 2002 20:19:53 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-l@lehigh.edu
Subject: [135127] TS-830S radio
Message-ID: <Pine.LNX.4.44.0209152016270.3765-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This is a very poor radio for a QRP operator. It's very old technology and doesn't cover the new bands and has tubes in it. Save the 450 bucks for a few months until it grows to 600 bucks and then by a Yaseu FT-817 which is brand new and covers ALL the bands and has general coverage and VHF/UHF and a lot more!

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Sun, 15 Sep 2002 22:26:31 -0400
From: "John P. Cummins, Sr." <jpcummins@charter.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [135128] Re: TS-830S radio
Message-ID: <3D854157.5040804@charter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Just for the record.. the TS-830 covers all of the WARC bands.

Pickett, AD4S

Karl F. Larsen wrote:

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> technology and doesn't cover the new bands and has tubes in it. Save the
> 450 bucks for a few months until it grows to 600 bucks and then by a
> Yaseu FT-817 which is brand new and covers ALL the bands and has general
> coverage and VHF/UHF and a lot more!
>

Date: Sun, 15 Sep 2002 22:42:16 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [135129] trade for guitar hardware?
Message-ID: <5.1.0.14.1.20020915222455.00b2d438@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Folks,

I have a few pieces of electric guitar equipment that is lightly used and never had real music played through it. (sniff) Would anyone be interested in trading radio gear for it? I'm most interested in a decent set of paddles, a CW filter for the FT-817, osmall HF rigs in general, but let's hear what you've got.

Here's what I'm offering:

1) Ibanez RG-20 electric guitar. Metallic blue body. I'll include an electronic tuner, soft case, 10' cable, an assortment of picks, and whatever unused strings I still have. I also have a few beginners' books I'll add to the pile.

2) Ibanez TB-15R practice combo amplifier. Fifteen watts, reverb, clean & distorted channels, CD input, headphone output.

3) Behringer V-amp 2 modelling amp. With soft carry bag, footswitch, power supply.

If you're interested, please drop me a note direct. Thanks for the time.

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton

Dave Hinerman
WD8CIV@att.net

Date: Sun, 15 Sep 2002 21:59:24 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>
To: <qrp-l@lehigh.edu>
Subject: [135130] Re: Single letter beacons
Message-ID: <000301c25d2d\$10df5b20\$1d36a6d8@Hal>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi John,

The single letter beacon "M" was interfering with my RockMite on 7039 kHz just the other morning. "M" is supposedly transmitting from Magadan, Asiatic Russia.

73,
Steve Yates - AA5TB

<http://www/qs;/net/aa5tb/>

Date: Sun, 15 Sep 2002 22:36:33 -0500
From: Dave Sjolín <sjolin@swbell.net>
To: k5di@zianet.com,
 Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135131] Re: TS-830S radio
Message-ID: <067001c25d32\$418b4770\$dbdad840@DaveSjolin>

MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Karl, the TS-830S covers all the WARC bands. I remember getting on 30 meters with it the first night the band was available. The TS-830S has one of the best receivers produced in the past twenty years. It certainly far exceeds anything the FT-817 can do and you don't have to have a pair of magnifying glasses to operate it. Matter of fact, the TS-830S at \$400 or so is a far better value than most of the new commercially manufactured rigs selling for less than \$1300.

73 de Dave, N0IT

----- Original Message -----

From: "Karl F. Larsen" <k5di@zianet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, September 15, 2002 9:19 PM
Subject: TS-830S radio

> This is a very poor radio for a QRP operator. It's very old
> technology and doesn't cover the new bands and has tubes in it. Save the
> 450 bucks for a few months until it grows to 600 bucks and then by a
> Yaseu FT-817 which is brand new and covers ALL the bands and has general
> coverage and VHF/UHF and a lot more!

Date: Sun, 15 Sep 2002 23:41:57 EDT
From: IamSF5@aol.com
To: k5di@zianet.com, qrp-l@lehigh.edu
Subject: [135132] Re: TS-830S radio
Message-ID: <16b.13c96a1a.2ab6ad05@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 9/15/02 10:17:41 PM Eastern Daylight Time, k5di@zianet.com writes:

<<

This is a very poor radio for a QRP operator. It's very old technology and doesn't cover the new bands and has tubes in it. Save the 450 bucks for a few months until it grows to 600 bucks and then by a Yaseu FT-817 which is brand new and covers ALL the bands and has general

coverage and VHF/UHF and a lot more!

>>

For \$450 bucks you have a full 100 watts and the Kenwood TS 830 does cover all the bands.

I sure won't drop \$1,000.00 for an FT 817 and thats just about what your going to put out when you get the tuner and the Collins filters.

Nothing wrong with tube finals and a tube driver plus it's still a radio you can work on/

Many FT 817,s are back on the work bench.

Bob

AF2Q

Date: Sun, 15 Sep 2002 20:53:46 -0700
From: George Fremin III - K5TR <geoiiii@kkn.net>
To: Dave Sjolín <sjolin@swbell.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135133] Re: TS-830S radio
Message-ID: <20020916035345.GD16160@loja.kkn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Sun, Sep 15, 2002 at 10:36:33PM -0500, Dave Sjolín wrote:

> with it the first night the band was available. The TS-830S has one of the
> best receivers produced in the past twenty years. It certainly far exceeds
> anything the FT-817 can do and you dont have to have a pair of magnifying

I will agree with that - the 830 has a very find receiver and I would stack it up there with all of the best radios you can get these days. The TS-830 is still what I would call competition grade radio.

--

George Fremin III - K5TR
geoiiii@kkn.net
<http://www.kkn.net/~k5tr>

Date: Sun, 15 Sep 2002 23:04:20 -0500
From: "Brian" <brian@iquest.net>
To: "QRP-L" <qrp-l@lehigh.edu>, <fpqrp-l@fpqrp.com>
Subject: [135134] Great night for Rockmite

Message-ID: <002a01c25d36\$22c38010\$08642bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just can't get over how much fun it is to build a little doo dad and then use it. It's gotta be one of life's most simple, and most enjoyed treasures.

Anyway...I fired up the newly cabineted Rockmite 40 here at the KB9BVN shack and tossed out a few CQ's with my 500 mW of power and KE4JZG comes back to me a solid 589 from Matthews NC. About 450 Miles from my QTH in New Whiteland IN. Not too bad considering he's off the end of my attic dipole. I must be CRUSHING Canada and South America with my signal.

Time for beddy bye time...whilst visions of Rockmite camping trips dance in my pointed little head...facing yet another Monday at the Gulag...sure beats the alternatives.

How much power are you guys getting out of your RM 20's?

73 de KB9BVN

=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57
=====

Date: Sun, 15 Sep 2002 23:15:53 -0500
From: "Jerry Ford" <benlightnd13@mchsi.com>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [135135] Fw: Great night for Rockmite
Message-ID: <00a501c25d37\$c010b4e0\$6d74da0c@mchsi.com>

Brian: You were about 559 on my K-1 here in Mo.

I am sitting here building my SW20+ and listening to the bands. Heard you calling and listened in on a couple of your QSO's while melting solder.

The RM sounds great!!

Have fun and maybe catch up with you next time your on!!

72 Jerry N0JRN

----- Original Message -----

From: "Brian" <brian@iquest.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Sunday, September 15, 2002 11:04 PM

Subject: Great night for Rockmite

> I just can't get over how much fun it is to build a little doo dad and

> then use it. It's gotta be one of life's most simple, and most > enjoyed treasures.

>

> Anyway...I fired up the newly cabineted Rockmite 40 here at the KB9BVN

> shack and tossed out a few CQ's with my 500 mW of power and KE4JZG > comes back to me a solid 589 from Matthews NC. About 450 Miles from my

> QTH in New Whiteland IN. Not too bad considering he's off the end of

> my attic dipole. I must be CRUSHING Canada and South America with my > signal.

>

> Time for beddy bye time...whilst visions of Rockmite camping trips > dance in my pointed little head...facing yet another Monday at the > Gulag...sure beats the alternatives.

>

> How much power are you guys getting out of your RM 20's?

>

> 73 de KB9BVN

>

>

> =====

> KB9BVN/QRP - New Whiteland IN - EM69WN

> QRP-ARCI #10223 QRP-L #1540 FIST #5695

> FISTS CC #764 - Proud Member ARRL

> HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W

> INTO INFAMOUS AF4PS ATTIC DIPOLE

> SOC #400 AND FLYING PIGS QRP #-57

> =====

>

>

>

Date: Mon, 16 Sep 2002 00:20:37 -0400
From: "NZ8J" <nz8j@woh.rr.com>
To: <elecrafft@qth.net>, <qrp-1@lehigh.edu>
Subject: [135136] FS: K2
Message-ID: <010001c25d38\$6bf7f840\$28361f41@NZ8J>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I recently bought a K2 after wanting for one for a couple of years in the hopes to kick-start my qrp desire once again.. I don't think it's going to do it, and I don't want this to just sit around unused so it is for sale. I may be sorry later..... It is serial number 1982, very well built, has every option except the battery. Also has the Heil/K2 mic. In excellent condition with all documentation either downloaded or original. \$775 + shipping . Please email with any questions.

thanks

Tim

Nz8J

Date: Mon, 16 Sep 2002 04:46:46 +0000
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: wo7t@juno.com
Cc: qrp-1@lehigh.edu
Subject: [135137] Re: Etchant Resist
Message-ID: <F129SlSVwJ5Pm0y3KEm00005054@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

wo7t@juno.com asks:

>Is there any good household materials that will serve as a good etchant
>resist for a small very basic circuit board
>I must make. I seem to recall finger nail polish?

>72,
>Mark
>W07T

Fingernail polish works FB but I use it mainly for covering wide areas that are not to be etched. You can also use it for "blobby" construction, sorta "Manhattan" I suppose. Markers, even the German ones, are highly inferior in my opinion. If you haven't, get a copy of a layout program like Eagle (free for limited size layout version) and use toner as etch resist. I use glossy paper recycled from publications and find that it beats everything else in the cheapskate's arsenal hands down.

Regards,

Brad KG6IOE

MSN Photos is the easiest way to share and print your photos:
<http://photos.msn.com/support/worldwide.aspx>

Date: Mon, 16 Sep 2002 01:00:53 -0400
From: "W2WU" <w2wurjj@verizon.net>
To: <IamSF5@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135138] TS-830S radio
Message-ID: <000601c25d3e\$33912160\$71c2fea9@w2wu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hollow State finals forgive, SS doesn't. Tube radio easier to work on.
Receiver performance: Next to Cadillac. Tube availability Yes. Tube Cost usually < than transistors (considering labor.)
Can't judge apples/oranges. Overall Cost = low Overall maint: low.
Technology: Has advanced. One radio all bands/modes not wise.
Make dispassionate decision, not based on others preferences. Judge how it works v. newer unit.
<SNIP>

Date: Mon, 16 Sep 2002 05:52:31 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: "George, W5YR" <w5yr@att.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135139] Re: Comments on Kenwood TS-830S
Message-ID: <3D85A9DF.1D75D99@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

George,

This group knows my rig preferences very well. Yes, I had some of the lower priced radios in mind, but the TS830 as he described it is about \$500 cheaper than the equivalent K2, and I doubt he would notice the difference in performance. The TS830 comes as a complete radio, you don't have to build anything, you don't have to select any options, you don't even have to add a power supply. If you want to play around with a radio buy a K2, if you want to play radio, buy the TS830!

73

Date: Mon, 16 Sep 2002 05:59:25 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135140] Re: TS-830S radio
Message-ID: <3D85AB7D.14456C50@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Karl,

The TS830 has all the ham bands from 160 meters through 10 meters. The FT817, darling that it is only adds 6, 2, and 440!

The TS830 uses only TWO tubes, and they are both 6146's. No other tubes are used in the radio. You may be thinking of the TS820, its predecessor!

The FT817 is no doubt a very fine radio, but it is not the only radio!

Date: Mon, 16 Sep 2002 11:26:17 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: nkennedy@tcainternet.com, qrp-1@lehigh.edu
Subject: [135141] RE: Etchant Resist
Message-ID: <F163k1Y1Df2TlycbEh6000072c2@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Nick Kennedy <nkennedy@tcainternet.com>
>Reply-To: nkennedy@tcainternet.com
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: RE: Etchant Resist
>Date: Sun, 15 Sep 2002 16:23:52 -0500
>
>Nail polish would probably be good.
>
>For simple boards, I used to like to use those little bitty jars of model
>airplane paint. I'd put it on with inexpensive artists paint brushes.
> Liked that better than resist pen lines because they had a tendency to
>wash away before etching was complete. If two lines accidentally touched,
>it was easy to take a knife and scrape away a border between them. The
>paint scrapes off easily but doesn't wash off in the etchant bath.

I used to get good results with cellulose paint from the local car accessory shop. I used to thin it to get finer lines.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 14790
Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

Date: Mon, 16 Sep 2002 07:49:58 EDT
From: N4SKS@cs.com
To: qrp-l@lehigh.edu
Subject: [135142] ts-830s
Message-ID: <3c.24435402.2ab71f66@cs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I don't normally jump on issues like this but I must say that my TS-830s is a wonderful transceiver. The receiver with irc filters will hold its own with most any thing on the market today . I easily turn mine down to five watts . Tx audio is always crisp and the variable band pass feature makes the rx really shine.
Down sideneeds a second VFO .

Les Shattuck K4NK

Past President QRP ARCI

Date: Mon, 16 Sep 2002 08:00:30 -0400
From: "Larry Spinner" <n2icz@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,
<k5di@zianet.com>
Subject: [135143] Re: TS-830S radio
Message-ID: <0E49xztCFGSWeuUUYfr000024de@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> In a message dated 9/15/02 10:17:41 PM Eastern Daylight Time,
k5di@zianet.com
> writes:

>This is a very poor radio for a QRP operator. It's very old
> technology and doesn't cover the new bands and has tubes in it.

What's wrong with tubes?? I think it should be a requirement for all hams to learn how to tune up the finals on an old rig, like the 830... It puts hair on your chest! :)

All kidding aside, I think you're talking about the 820S... I have one. The 820 doesn't have the WARC bands and has the two finals... I've cranked that baby back to QRP levels and have had very good success. Although the 820S graces my shack, it is useless for portable work. In fact, it's just too heavy to lug around anywhere (despite the handle on its side). And

you're right...the technology has changed as such that a little radio like the FT-817 gives one a lot for their money...

Date: Mon, 16 Sep 2002 08:03:34 -0400
From: Chuck Ludinsky <cjl@mitre.org>
To: "George, W5YR" <w5yr@att.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>, neqrp@jona1.net
Subject: [135144] Re: QRP Afield - Clarification of Multi-Club Station rule.
Message-ID: <3D85C896.714A87A0@mitre.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

George,

What you want to do is fine.

Again, the rule simply says one transmitted signal PER CALL SIGN. You can have multiple stations at a site, with each using a separate call sign. You can also have multiple operators per station/call sign, with one person operating at a time (i.e., one transmitted signal for the club/group call sign). Does this help any?

I think the intention was to "level the playing field" among all participants. But I didn't generate the rule, nor do I have any special attachment to it.

72,
Chuck/K1CL

"George, W5YR" wrote:

> Chuck, I read the reissued rules and I still cannot decide from the rules
> alone what a group of operators can and cannot do. So, let me ask the
> question:
>
> Can five of us gather here at my place, put up some antennas and set up two
> or three stations and all operate using our individual callsigns on any/all
> bands concurrently, with any number of transmitters on the air at the same
> time?
>
> Not a club activity - not using a club callsign - not entering logs as a
> club - submitting as many logs as there are stations operating under the
> operator's own callsign - just five guys that want to operate together but
> as individual stations at the same general location.
>

> Is that OK?
>
> Thanks!
>
> --
> 73/72, George
> Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
> Amateur Radio W5YR - the Yellow Rose of Texas
> In the 57th year and it just keeps getting better!
>
> Paul Womble wrote:
> >
> > Chuck several of us would like to know multiple transmitters are still
> > out? For our group having 2 transmitters, on different bands, provides
> > the maximum op time for everyone.
> >
> > Paul K4FB

Date: Mon, 16 Sep 2002 08:20:45 -0400
From: W2AGN <w2agn@w2agn.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135145] Re: TS-830S radio
Message-ID: <3D85945D.25553.9B4BB45@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 15 Sep 2002 at 20:19, Karl F. Larsen wrote:

>
> This is a very poor radio for a QRP operator. It's very old
> technology and doesn't cover the new bands and has tubes in it. Save the
> 450 bucks for a few months until it grows to 600 bucks and then by a
> Yaseu FT-817 which is brand new and covers ALL the bands and has general
> coverage and VHF/UHF and a lot more!
>

As usual, Karl doesn't know what he is talking about. The 830 DOES cover the WARC bands. It gives you the capability to run QRO IF NEEDED, it is not a choice if you want to go to the field, but for a Home Station rig, it is excellent. Receiver, even with "old" technology is the equal of the FT-817. Just wait til something goes wrong with

Karl's FT-817, and we'll hear what a piece of crap he thinks it is. Anyone want to

bet this will happen?

--

/ \ / \ / \ / \ / \ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
_ / _ / _ / _ / _ QRPARCI, NJQRP, ARQrp,GQRP,RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Mon, 16 Sep 2002 05:25:48 -0700 (PDT)
From: n8ie <n8ie@woh.rr.com>
To: qrp-l@lehigh.edu
Subject: [135146] Re: TS-830S radio
Message-ID: <10274193.1032179148437.JavaMail.Administrator@ATP2>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Karl,
That is not a true, the TS-830S covers 10-160 including the WARC bands and does QRP very well. Also if you talk to anyone who has owned an 830, they will tell you the rec. is by far better than any new rig on the market.

73
Dan, N8IE

>On Sun, 15 Sep 2002 20:19:53 -0600 (MDT) "Karl F. Larsen"
><k5di@zianet.com> wrote.

>
> This is a very poor radio for a QRP operator. It's very old
>technology and doesn't cover the new bands and has tubes in it. Save the
>450 bucks for a few months until it grows to 600 bucks and then by a
>Yaseu FT-817 which is brand new and covers ALL the bands and has general
>coverage and VHF/UHF and a lot more!

>
>--
>

> - Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Mon, 16 Sep 2002 08:22:56 -0400
From: "John P. Cummins, Sr." <jpcummins@charter.net>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [135147] Re: TS-830S radio
Message-ID: <3D85CD20.4050602@charter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Would someone look in their 830 manual and verify this. I had a 530 and I think it still had the 12BY7 driver for the PA.. so it had 3 tubes. I know that my 820 (which I used for 14 years had the 3 tubes).

Pickett, AD4S

Larry Spinner wrote:

>>In a message dated 9/15/02 10:17:41 PM Eastern Daylight Time,
>
> k5di@zianet.com
>
>>writes:
>
>
>>This is a very poor radio for a QRP operator. It's very old
>> technology and doesn't cover the new bands and has tubes in it.
>
>
> What's wrong with tubes?? I think it should be a requirement for all hams
> to learn how to tune up the finals on an old rig, like the 830... It puts
> hair on your chest! :)
>
> All kidding aside, I think you're talking about the 820S... I have one.
> The 820 doesn't have the WARC bands and has the two finals... I've cranked
> that baby back to QRP levels and have had very good success. Although the
> 820S graces my shack, it is useless for portable work. In fact, it's just
> too heavy to lug around anywhere (despite the handle on its side). And
> you're right...the technology has changed as such that a little radio like
> the FT-817 gives one a lot for their money...
>

Date: Mon, 16 Sep 2002 05:24:20 -0700
From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: <n2icz@hotmail.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135148] Re: TS-830S radio
Message-ID: <001301c25d7b\$fc045c60\$120cf4d8@tjacobs>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Nothin' like tubes to keep the shack warm in the Winter! ;-) Hehehe it's a real bear to run my old Johnson boat anchors (said with love) in the Summer. Really heats up the shack. Yep, you've gotta know these older rigs to run them. How much grid current, how much plate current, and how to tune it, and so forth. I keep one eye on the plate meter and the other eye on the SWR meter Hi! Sure is fun though. Have never owned a TS-830S, but sounds like a nice rig. The 6146 is a good final tube, and is very available from multiple sources. If you run them at their correct voltages and currents, they seem to be pretty robust. Got 2 of them in the Viking II and a single 6146 in the Ranger. Plus my old SB-100 used a 6146 in the final as well, or was that a pair...been a while...just remember it being enclosed in that black metal cage at the rear right of the rig. Fun Stuff!!! BTW I get razzed all the time by the local Hams for not owning a Kenwood, since I live on Kenwood Ave!!! Maybe I'll look for a TS-830S!!!

73's Trev KG6CYN
<http://home.earthlink.net/~kg6cyn>
<http://www.qsl.net/kg6cyn>

----- Original Message -----
From: Larry Spinner <n2icz@hotmail.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Monday, September 16, 2002 5:00 AM
Subject: Re: TS-830S radio

> > In a message dated 9/15/02 10:17:41 PM Eastern Daylight Time,
> k5di@zianet.com
> > writes:
>
> >This is a very poor radio for a QRP operator. It's very old
> > technology and doesn't cover the new bands and has tubes in it.
>
> What's wrong with tubes?? I think it should be a requirement for all
hams
> to learn how to tune up the finals on an old rig, like the 830... It
puts
> hair on your chest! :)
>
> All kidding aside, I think you're talking about the 820S... I have
one.
> The 820 doesn't have the WARC bands and has the two finals... I've

cranked
> that baby back to QRP levels and have had very good success. Although
the
> 820S graces my shack, it is useless for portable work. In fact, it's
just
> too heavy to lug around anywhere (despite the handle on its side).
And
> you're right...the technology has changed as such that a little radio
like
> the FT-817 gives one a lot for their money...

Date: Mon, 16 Sep 2002 08:24:54 -0400
From: W2AGN <w2agn@w2agn.net>
To: kg6cyn@earthlink.net,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135149] Re: OT:IRLP
Message-ID: <3D859556.29370.9B88978@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 15 Sep 2002 at 17:12, Trevor Jacobs wrote:

> IRLP - Internet Radio Linking Project - check www.irlp.net for
> information. BTW I think it's a better subject than some of the crap
> we've had on here IMHO. Could be a lot of fun, and I'd hardly call
> myself an expert since I just started playing with it.
> ----- Original Message -----
> From: Karl F. Larsen <k5di@zianet.com>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Sent: Sunday, September 15, 2002 4:22 PM
> Subject: Re: OT:IRLP
>
>
> >
> > Hi Trevor, I'm sure your an expert with IRLP and can run circles
> around
> > me! That's because I don't even know what IRLP stands for. I'm not
> sure
> > I want to use someting I know zero about. So lets drop the subject.
> >
> >

Trevor, Karl has one H*ll of a nerve wanting to drop a subject because "he knows zero about it." If that were the case, he would never post at all! Don't let him bully you!

--

/\ /\ /\ /\ /\ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
_/__/__/_/ QRPARCI, NJQRP, ARQrp,GQRP,RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Mon, 16 Sep 2002 08:29:12 -0400
From: W2AGN <w2agn@w2agn.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135150] Re: Linux talking over the internet
Message-ID: <3D859658.21422.9BC7998@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 15 Sep 2002 at 20:12, Karl F. Larsen wrote:

>
> I was directed to this web site which is a main one for linux
> software and I d/l and will install a "bridge" which I can't use but
> hams in the area can use it seems. It appears to be new stuff for Linux
> so not sure what will happen, but I d/l the tarball and will compile and
> load the software now.
>
> More when I learn more...
>

Ok, here's another bet. Either 1. Karl ius going to come back, and proclaim himself an "expert" on IRLP, meaning he actually got the software to work, OR,

2. He will come back saying it is "junk" and "not real radio" meaning he couldn't get it to work.

Any takers?

BTW, I have tried Echolink iLink and eQSO, just for fun. Works fine, but not my cup of tea. If it floats your boat, FB.

--

/\ /\ /\ /\ /\ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
/ _/_ _/_ _/_ _/_ QRPARCI, NJQRP, ARQrp,GQRP,RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Mon, 16 Sep 2002 07:43:27 -0500
From: <mgoins@usa.net>
To: <qrp-l@lehigh.edu>
Subject: [135151] FS - Quad stuff, Houston area
Message-ID: <200209161245.g8GCissB030101@rain.CC.Lehigh.EDU>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

The original "looker" backed out, so I still have eight cubex one-piece q=
uad
poles and a set of cubex spiders I need to do something with soon. Tempor=
arily
in an apartment, so I can't use them for a while.

Will consider a trade for whatever or a reasonable offer. Might be able t=
o
deliver
local to Houston. =

Thanks.

mike
wb5yjx =

=

Date: Mon, 16 Sep 2002 05:47:42 -0700 (PDT)
From: "W2BJ" <w2bj@minsky.info>
To: W1JD@drix.net
Cc: qrp-l@lehigh.edu
Subject: [135152] Re: OT:IRLP
Message-ID: <20020916054742.26334.h004.c001.wm@mail.minsky.org.criticalpath.net>
Content-Type: text/plain; charset=iso-8859-1
Content-Disposition: inline

Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

On Sun, 15 September 2002, JD Delancy wrote:

>
>
> Easy now. IRLP (and EchoLink -- www.echolink.org
>) are fun things and very useful.
>
> No need to fling around barbs.

I have not tried it as yet, but I have a ham
friend who has. I hear great things about it.
Let's hear more.

72/73, Barry J. Minsky, W2BJ ARRL, QRP ARCI #8871,
NorCal #1560, QRP-L, FISTS #2701, Century Club
#569, Platinum #51, Silver #119, FISTS CW Club of
Coastal Georgia, Knightlites, Adventure Radio
Society #359, QCWA #29298, OOTC #3723, SOC #193,
K2 #577, K1 #98

Date: Mon, 16 Sep 2002 09:10:40 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [135153] Oops...
Message-ID: <5.1.0.14.1.20020916090755.00a72ec0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Folks,

Yesterday I offered a guitar & associated toys for trade. However, I listed
the wrong guitar model. It is actually an Ibanez GRX20Z. (As near as I can
tell the RG-20 that I named yesterday is a nonexistent model.)

Sorry about the mixup. All are items still available.

Dave

I'd rather be thought ignorant than stupid. Ignorance is curable.

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 16 Sep 2002 09:14:13 -0400
From: "Kevin M., KC8SFJ" <adverseyaw@twmi.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135154] Re: Comments on Kenwwod TS-830S
Message-ID: <005b01c25d82\$f3ad55b0\$45f5d018@magnus>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thank you all for your comments. And thank you Karl for being the one dissenting opinion of the group. It is important to have variety. I have decided to get the radio if it is still available. While my homebrew 2N2/40 is a great radio (.22uV MDS), having only 40m is somewhat limiting. Thanks again to all who replied.
73/72 - Kevin, KC8SFJ

----- Original Message -----
From: "Kevin M., KC8SFJ" <adverseyaw@twmi.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, September 15, 2002 7:16 PM
Subject: Comments on Kenwwod TS-830S

> Gang,
> I have the opportunity to purchase a Kenwood TS-830S with ATU and Ext.
> Spkr. for \$450+ shipping. My question? Is this a good rig to start
> out
> with? Can the drive be turned down to only output 5 watts or less? And
> is this a fair price? Judging by local hamfest prices it seems a
> little
> low. What are your opinions?
> Thank you for your comments.
> 73,
> Kevin, KC8SFJ
> |=====|
> | QRP-L #2366 - member since October/2001 |
> | QRP-ARCI #11248 - member since May/2002 |
> | FISTS #9293 - member since July/2002 |
> | HR - member since September/1965 |
> |=====|
>

> AdverseYaw@twmi.rr.com <-- My email address
> AdverseYaw@bigfoot.com <-- My forwarding address
> Quote of the day--
>
> "Would you tell me, please, which way I ought to go from here?"
> "That depends a good deal on where you want to get to," said the Cat
> - Lewis Carrol
>
>
>

Date: Mon, 16 Sep 2002 06:14:59 -0700 (PDT)
From: "MELBA WHITE" <lwnphx@peoplepc.com>
To: qrp-1@lehigh.edu
Subject: [135155] FS BayPac Modem
Message-ID: <20020916061500.12579.h010.c002.wm@mail.peoplepc.com.criticalpath.net>
Content-Type: text/plain; charset=iso-8859-1
Content-Disposition: inline
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

Hello,

I the following for sale:

1 - BayPac Modem Model BP-2M
for info www.tigertronics.com
Current list is \$69.95 + a
minimum of \$7 for shipping

I will sell it for \$40 which includes shipping by
Priority Mail. I bought it new about 5 or 6 yrs ago
and have used it for maybe 4 or 5 times.

Russ AB7JX
ab7jx@arrl.net

note: When replying to me, email me direct and do not
reply to the list

PeoplePC: It's for people. And it's just smart.
<http://www.peoplepc.com>

Date: Mon, 16 Sep 2002 09:14:07 -0400
From: "Glen Leinweber" <leinwebe@mcmaster.ca>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [135156] On VFO stability
Message-ID: <000501c25d82\$f026c700\$07ea7182@mcmaster.ca>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

In May 1984 QST, Dennis Monticelli gave
his prescription for stable VFO construction.
His 30M VFO drifted from a cold start only 38Hz.
Wow, that's exceptional!

Here's his (shortened) list of VFO rules:

- 1) Keep RF power out to a minimum.
- 2) Feedback to maintain oscillation: minimized.
- 3) Shield the L's & C's of the VFO tank components.
- 4) DC supply stability and ripple minimized.
- 5) De-couple DC coming in to oscillator carefully.
- 6) Lightly couple oscillator to buffer.
- 7) Buffer stage should have constant input Z.
- 8) Buffer stage should have low reverse gain.
- 9) Ft oscillator device > 20 times operating freq.
- 10) A means of stabilizing oscillator amplitude.
- 11) Use low-tempco, low-loss caps: NP0, silver-mica, polystyrene.
- 12) Parallel caps where RF current is high.
- 13) Good quality air variables: brass plates, double-end bearings.
- 14) Solid air-wound coil on ceramic, glass or plastic form.
- 15) Q-dope on home-made coils.
- 16) For coils with slugs, use low-tempco iron-powder material.
- 17) Keep slug penetration into coil to a minimum.
- 18) L's & C's in VFO tank shouldn't encounter air-flow.
- 19) Keep L & C strays low:
 - Short lead length
 - Wide ground return path (big groundplane)
 - No double-sided PC board construction.
- 20) Reduce mechanical vibration:
 - Mount all critical components securely
 - Wiring should be solid, heavy gauge wire.

His remarkable 30M VFO operates at 5 MHz, and relies on
an external frequency doubler to get to 10.1 MHz. Clapp
circuit, with series tuning, using a JFET. This is a
slight variation on Colpitts. Internal battery powered, 9V.

His buffer is different, one that I've investigated too. Clapps, Colpitts and Hartley's have grounded drains (collectors). Here, the drain is loaded with the source (emitter) of the buffer, and fed DC that way too. This makes the buffer common gate (or common base), which has excellent output/input isolation. The whole oscillator-buffer combination looks like a cascode. His oscillator FET only takes 2.5 mW DC power. I've done a 7Mhz. VFO this way that drives a +7dBm diode mixer. Only two transistors.

His buffer drain is the only lead coming out of the VFO shielded compartment. It carries RF out, and DC in.

-Glen VE3DNL

Date: Mon, 16 Sep 2002 08:40:53 -0500
From: "George, W5YR" <w5yr@att.net>
To: cjl@mitre.org
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>, neqrp@jonal.net
Subject: [135157] Re: QRP Afield - Clarification of Multi-Club Station rule.
Message-ID: <3D85DF65.EE3C401C@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks, Chuck! All clear now . . .

73/72, George
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR - the Yellow Rose of Texas
In the 57th year and it just keeps getting better!

Chuck Ludinsky wrote:

>
> George,
>
> What you want to do is fine.
>
> Again, the rule simply says one transmitted signal PER CALL SIGN. You can have
> multiple stations at a site, with each using a separate call sign. You can
> also have multiple operators per station/call sign, with one person operating
> at a time (i.e., one transmitted signal for the club/group call sign). Does
> this help any?

>
> I think the intention was to "level the playing field" among all participants.
> But I didn't generate the rule, nor do I have any special attachment to it.
>
> 72,
> Chuck/K1CL
>
> "George, W5YR" wrote:
>
> > Chuck, I read the reissued rules and I still cannot decide from the rules
> > alone what a group of operators can and cannot do. So, let me ask the
> > question:
> >
> > Can five of us gather here at my place, put up some antennas and set up two
> > or three stations and all operate using our individual callsigns on any/all
> > bands concurrently, with any number of transmitters on the air at the same
> > time?
> >
> > Not a club activity - not using a club callsign - not entering logs as a
> > club - submitting as many logs as there are stations operating under the
> > operator's own callsign - just five guys that want to operate together but
> > as individual stations at the same general location.
> >
> > Is that OK?
> >
> > Thanks!
>

Date: Mon, 16 Sep 2002 09:54:48 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135158] RE: trade for guitar hardware?
Message-ID: <721D3436A7C2B344A301FD4A413C71A93D8E8B@kosh.ARRLHQ.ORG>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

For those that are interested, the Ibanez is a quality guitar.

73,=20
Ed Hare, W1RFI

> -----Original Message-----
> From: David Hinerman [mailto:WD8CIV@worldnet.att.net]

> Sent: Sunday, September 15, 2002 10:42 PM
> To: Low Power Amateur Radio Discussion
> Subject: trade for guitar hardware?
>=20
>=20
> Folks,
>=20
> I have a few pieces of electric guitar equipment that is=20
> lightly used and=20
> never had real music played through it. (sniff) Would anyone=20
> be interested=20
> in trading radio gear for it? I'm most interested in a decent set of=20
> paddles, a CW filter for the FT-817, osmall HF rigs in=20
> general, but let's=20
> hear what you've got.
>=20
> Here's what I'm offering:
>=20
> 1) Ibanez RG-20 electric guitar. Metallic blue body. I'll include an=20
> electronic tuner, soft case, 10' cable, an assorment of=20
> picks, and whatever=20
> unused strings I still have. I also have a few beginners'=20
> books I'll add to=20
> the pile.
>=20
> 2) Ibanez TB-15R practice combo amplifier. Fifteen watts,=20
> reverb, clean &=20
> distorted channels, CD input, headphone output.
>=20
> 3) Behringer V-amp 2 modelling amp. With soft carry bag,=20
> footswitch, power=20
> supply.
>=20
> If you're interested, please drop me a note direct. Thanks=20
> for the time.
>=20
> Dave
> -----
> "You can fool some of the people all of the time. That's=20
> enough to make a=20
> living." - Lance Burton
> -----
> Dave Hinerman
> WD8CIV@att.net
>=20
>=20

Date: Mon, 16 Sep 2002 09:57:39 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [135159] RE: QST Free? No, I don't think so.
Message-ID: <721D3436A7C2B344A301FD4A413C71A93D8E8C@kosh.ARRLHQ.ORG>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: quoted-printable

In one sense, QST is free. Much of the cost of producing and mailing it =
are paid by those advertisers whose pages you have to flip through to =
get to the articles. ARRL's revenue comes from membership, ad sales, =
publication sales and donations. =20

73,=20
Ed Hare, W1RFI

> -----Original Message-----
> From: k8cv [mailto:k8cv@netzero.net]
> Sent: Friday, September 13, 2002 9:26 PM
> To: Low Power Amateur Radio Discussion
> Subject: Fw: QST Free? No, I don't think so.
>=20
>=20
> Gee, my qst is free, I just put a change of address in for a=20
> local LIFE
> MEMBER who became a silent key and it just rolls in=20
>
>=20
> You just got to out think them Doug :-)
>=20
> Hank has always been one step ahead of the rest of us ;-)
>=20
> Walt Amos K8CV Royal Oak, MI.
>=20
>=20
> ----- Original Message -----
> From: "Doug Hendricks" <ki6ds@dph.dpol.net>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Friday, September 13, 2002 17:59
> Subject: QST Free? No, I don't think so.
>=20
>=20
> > Hank, if QST is "Free", then how come the cost of=20
> membership in ARRL keeps

> > rising everytime postage and printing costs raise? You=20
> better believe
> that
> > you are paying for QST. 72, Doug
> >
> >
>=20
>=20
> -----
> Introducing NetZero Long Distance
> Unlimited Long Distance only \$29.95/ month!
> Sign Up Today! www.netzerolongdistance.com
>=20

Date: Mon, 16 Sep 2002 09:58:31 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [135160] RE: My One & Only ARRL Post
Message-ID: <721D3436A7C2B344A301FD4A413C71A93D8E8D@kosh.ARRLHQ.ORG>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Believe it or not, a few hams have become Life Members more than once! =
:-) And, yes, we did tell them...

73,=20
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

> -----Original Message-----
> From: wkhibbert@juno.com [<mailto:wkhibbert@juno.com>]
> Sent: Saturday, September 14, 2002 8:49 AM
> To: Low Power Amateur Radio Discussion
> Subject: My One & Only ARRL Post
>=20
>=20

> This is it... =20
>=20
> If the ARRL ticks me off enough, I won't renew my life membership.
>=20
> 73, Wm. Keith Hibbert, WB2VUO, TC/WNY ARRL Section
> President, Brockport Amateur Radio Klub
> "My night light runs more power than my Rig!!!"
>=20
> -----
> GET INTERNET ACCESS FROM JUNO!
> Juno offers FREE or PREMIUM Internet access for less!
> Join Juno today! For your FREE software, visit:
> <http://dl.www.juno.com/get/web/>.
>=20

Date: Mon, 16 Sep 2002 10:01:09 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [135161] RE: QST on news stands
Message-ID: <721D3436A7C2B344A301FD4A413C71A93D8E8E@kosh.ARRLHQ.ORG>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I did check and have learned that QST is no longer sold on the =
newstands. The decision was financial. Most newstand copies are not =
sold, and although the exposure might create a few new hams, the costs =
outweighed the benefits. I think that most prospective new hams have no =
trouble finding out about ham radio through other means, so as an ARRL =
member in good standing, I agree that the money is better spent on =
important things like a new microwave signal generator for the ARRL Lab. =
:-)

Probably should drop it as OT, but I felt the followup info would be =
helpful to the list readers.

73,=20
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318
Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

> -----Original Message-----
> From: Mark J. Dulcey [mailto:mark@buttery.org]
> Sent: Saturday, September 14, 2002 12:53 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: QST on news stands
>=20
>=20
> Paul Mills wrote:
> >=20
> >>Paul, are there any radio places around MA/NH/ME besides the
> >=20
> > Salem, NH place?
> >=20
> >>Dave
> >>VE1VQ
> >=20
> >=20
> > No more that I know of. Gone is the store in Somerville(?) and
> > the Heathkit store on Route 9 in Framingham where I bought my
> > long-gone HW-16.
>=20
> You're probably thinking of Tufts Radio, which was in=20
> Medford, not Somerville. Long gone.
>=20
> Other places that are gone: Tel-Com in Westford, and=20
> Rivendell Electronics in Derry NH. The Heathkit store, of=20
> course, died along with the company.
>=20
> HRO in Salem NH is really it these days, unless you count the=20
> small amount of ham gear available at Radio Shack. There are=20
> some places where you can get parts of interest to hams, such=20
> as coax, connectors, etc. - such as You-Do-It Electronics in=20
> Needham - but no place else to buy rigs.
>=20
> A bit farther from here is Lentini Communications in=20
> Newington CT, not far from ARRL HQ. But that's not one of the=20
> states you asked about.
>=20
>=20
>=20
>=20
>=20

Date: Mon, 16 Sep 2002 09:45:27 -0400
From: "Rex Harper" <w1rex@megalink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135162] Gillette "Blue Blade" radios....
Message-ID: <009001c25d87\$517fe6e0\$443ca43f@stickfarmers>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

QRP Gangue,

For those who are interested in the ULTRA simple homebrew radio thread, point your search engines to "foxhole radio" that is what it was called during "The war to end all wars" by the GIs who were issued blue blade razors (and had access to high impedance phones). Google points to over a hundred references to foxhole radios. I checked out the first entry and found the "complete" schematic.

"Gentlemen...start your engines!"

W1REX Rex Harper "The Tinman"

Date: Mon, 16 Sep 2002 14:06:20 +0000
From: k4VIB@att.net
To: qrp-l@lehigh.edu
Subject: [135163] Has anyone built the WA1FFL DDS VFO Kit from Jan 2002 QST??
Message-ID:
<20020916140620.BLNZ15461.mtiwmhc22.worldnet.att.net@webmail.worldnet.att.net>

I've just finished mine and I'm curious to see what your results were and how your using it. The kit went together very well.

Bill
K4VIB

Date: Mon, 16 Sep 2002 08:16:41 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@lehigh.edu>
Cc: Elecraft <elecraft@mailman.qth.net>

Subject: [135164] K2 case
Message-ID: <Pine.LNX.4.33.0209160812300.19390-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just picked up a Pelican 1400 case for my K2 off eBay Canada...from the information I gathered, if this doesn't protect the K2 then something's wrong...hihi...it's bright orange and waterproof as well...the cost was \$100.00 Cdn...it's in perfect shape including the internal foam...so I guess we can add it to the list of cases for the K1, K2....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Mon, 16 Sep 2002 10:35:00 -0400
From: "Michael Melland" <w9wis@charter.net>
To: n8ie@woh.rr.com,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135165] Re: TS-830S radio
Message-ID: <web-1545630@dc-mxdb02.cluster1.charter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"; format="flowed"
Content-Transfer-Encoding: 8bit

>Also if you talk to anyone who has
>owned an 830, they
>will tell you the rec. is by far better than any new rig
>on the market.

My first real station set up was the TS-830S. I loved it.... I'd still have it if not for my conversion to Ten-Tec specifically for the receiver. I have found nothing that works as good for me as the TS-830S or Ten-Tec Omni's.

And someone else was asking about the tube compliment.
The TS-830S uses 2 ea 6146B's and a 12BY7A driver.

Mike

--

Michael Melland, W9WIS
Winneconne, WI USA

Date: Mon, 16 Sep 2002 09:43:08 -0500
From: "Walter AG5P" <walter@accessus.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135166] Re: QRP Afield - Clarification of Multi-Club Station rule.
Message-ID: <008401c25d8f\$606910c0\$69476ad8@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Chuck, thank you for the clarification of the QTTF rules.
72/73...Walter, AG5P

<<<snipped>>>

Again, the rule simply says one transmitted signal PER CALL SIGN. You can have multiple stations at a site, with each using a separate call sign. You can also have multiple operators per station/call sign, with one person operating at a time (i.e., one transmitted signal for the club/group call sign). Does this help any?

I think the intention was to "level the playing field" among all participants. But I didn't generate the rule, nor do I have any special attachment to it.

72,
Chuck/K1CL

Date: Mon, 16 Sep 2002 09:45:50 -0500
From: "KD5NWA" <KD5NWA@mbayona.com>
To: "Tentec@Contesting. Com" <tentec@contesting.com>,
 <qrp-l@lehigh.edu>
Subject: [135167] RE: Sad Day
Message-ID: <NGBBJPBAOLKEABLLGGKBMEAKCEAA.KD5NWA@MBayona.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It's back, I unplugged all connectors and reseated them, and the Corsair is

it's old self again. After I move I'll get a bottle of contact cleaner and go over the connections again.

Thanks to everyone for they suggestions, I even had one ham offer a loaner, you just can't get any better that that.

Cecil
KD5NWA

-----Original Message-----

From: Harry [mailto:rfman@mindspring.com]
Sent: Friday, September 13, 2002 4:05 PM
To: KD5NWA
Subject: Re: [TenTec] Sad Day

Cecil;

Try some contact cleaner on the connectors that mate the display board and the driver board. I was loosing a whole row of sgments at a time. I put a little Deoxit in the connectors and have been trouble free ever since. Don't go overboard, just a little to wet the contacts. It's woth a try before sending it home for a visit.

73 Harry
NK9R

----- Original Message -----

From: "KD5NWA" <KD5NWA@mbayona.com>
To: <qrp-1@Lehigh.EDU>; "Tentec@Contesting. Com" <tentec@contesting.com>
Sent: Friday, September 13, 2002 13:02
Subject: [TenTec] Sad Day

> My wonderful Corsair has gone amuck, the frequency display is changing all
> over the place and is totally on the wrong band. I guess it's time to pack
> it and send it to Ten-Tec, it could have happened at a worst time, I'm in
> the process of moving to a house in the country, and I will be spending
> money like crazy buying new furniture, and finally I'll have a decent
> antenna, but alas no radio for a while. Just as well, I need to upgrade my
> license. The house sits on 30 acres with underground power, and 180, X
180'
> clearing around the house with very tall trees (> 60 feet) 360 degrees
> around the house. Let's see a couple of dipoles at different angles, one
> giant loop around the field, I guess I'm going to have plenty of stuff to
do
> until my Corsair gets back.
>

> Cecil
> KD5NWA
>
> -----
> TenTec mailing list
> TenTec@contesting.com
> <http://lists.contesting.com/mailman/listinfo/tentec>
>

Date: Mon, 16 Sep 2002 10:46:28 -0400
From: "Mullin, Edward J." <mulline@tycoelectronics.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135168] RE: TS-830S radio
Message-ID: <F1C60F6146F4DF4B902254ECAC17271D6A057E@us358mx00>
MIME-Version: 1.0
Content-Type: text/plain

I've got a Valiant that I use frequently. It has 3 6146's in the finals and 2 of them for modulation... When I first got it I found that one of the tubes in the modulation section had gotten so hot the glass had dimpled inwards. It STILL WORKED though, lets see a transistor do THAT! :)

Ok, now for now for some QRP content: Just ordered a ROCKMITE for 20 m, Think I will use one of those fake rocks they sell to hide your spare keys in your garden for an enclosure... Now If I can get a really "Flintstones" looking paddle to go with it!!!

> -----Original Message-----
> From: Trevor Jacobs [SMTP:kg6cyn@earthlink.net]
> Nothin' like tubes to keep the shack warm in the Winter! ;-) Hehehe it's
> a real bear to run my old Johnson boat anchors (said with love) in the
> Summer. Really heats up the shack. Yep, you've gotta know these older
> rigs to run them. How much grid current, how much plate current, and how
> to tune it, and so forth. I keep one eye on the plate meter and the
> other eye on the SWR meter Hi! Sure is fun though. Have never owned a
> TS-830S, but sounds like a nice rig. The 6146 is a good final tube, and
> is very available from multiple sources. If you run them at their
> correct voltages and currents, they seem to be pretty robust. Got 2 of
> them in the Viking II and a single 6146 in the Ranger. Plus my old
> SB-100 used a 6146 in the final as well, or was that a pair...been a
> while...just remember it being enclosed in that black metal cage at the
> rear right of the rig. Fun Stuff!!! BTW I get razzed all the time by the
> local Hams for not owning a Kenwood, since I live on Kenwood Ave!!!
> Maybe I'll look for a TS-830S!!!

>
> 73's Trev KG6CYN
> <http://home.earthlink.net/~kg6cyn>
> <http://www.qsl.net/kg6cyn>
>

Date: Mon, 16 Sep 2002 09:51:34 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: k4VIB@att.net,
 Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135169] Re: Has anyone built the WA1FFL DDS VFO Kit from Jan 2002 QST??
Message-ID: <02b201c25d90\$8d8877c0\$6401a8c0@cstltn01.in.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I built one... but didn't use the onboard microprocessor. I modified it by wiring the DDS chip out to a parallel port connection and drive it from the PC using the AD9835 Eval Board software. It works like a charm and I'm not limited to a single band.

Now that I have one of the KG6CYN DDS VFO's... I never use the modified WA1FFL board anymore. Trevor's design is by far the best I've ever seen in a DDS VFO (signal generator). All the info you need to build one is on his Web site:

http://home.earthlink.net/~kg6cyn/DDS_Project.htm

73/72/71! de Brice KA8MAV

----- Original Message -----

From: <k4VIB@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, September 16, 2002 9:06 AM
Subject: Has anyone built the WA1FFL DDS VFO Kit from Jan 2002 QST??

> I've just finished mine and I'm curious to see what your results were and
> how
> your using it. The kit went together very well.
>
> Bill
> K4VIB
>

Date: Mon, 16 Sep 2002 10:05:16 -0500 (EST)
From: <igeq100@iupui.edu>
To: Brian <brian@iquest.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135170] Re: Great night for Rockmite
Message-ID: <Pine.GS0.3.96.1020916100413.16566A-1000000@jade.iupui.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi, Brian -

My RM-20 puts out the full 500 mW, according to the OHR wattmeter.

Rich, WB9LPU

Date: Mon, 16 Sep 2002 11:06:03 -0400
From: "Lee Mairs" <lmairs@cox.net>
To: <w6toy@erols.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135171] Re: Comments on Kenwwod TS-830S
Message-ID: <003401c25d92\$93745bc0\$6901a8c0@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Or better yet, a used Icom 751A...

----- Original Message -----

From: "Bruce Muscolino" <w6toy@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, September 16, 2002 5:52 AM
Subject: Re: Comments on Kenwwod TS-830S

>

> George,

>

> This group knows my rig preferences very well. Yes, I had some of the
> lower priced radios in mind, but the TS830 as he described it is about
> \$500 cheaper than the equivalent K2, and I doubt he would notice the

> difference in performance. The TS830 comes as a complete radio, you
> don't have to build anything, you don't have to select any options, you
> don't even have to add a power supply. If you want to play around with
> a radio buy a K2, if you want to play radio, buy the TS830!
>
> 73
>

Date: Mon, 16 Sep 2002 10:21:44 -0500
From: "KD5NWA" <KD5NWA@mbayona.com>
To: <ekdave@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [135172] RE: Serial CW Sender noise issues
Message-ID: <NGBBJPBAOLKEABLLGGKBKEALCEAA.KD5NWA@MBayona.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Have they started shipping the kits? I bought one when it first was
announced and have not heard a peep from anyone on it.

Cecil
KD5NWA

-----Original Message-----
From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
Dave Ek
Sent: Sunday, September 15, 2002 8:29 AM
To: Low Power Amateur Radio Discussion
Subject: Re: Serial CW Sender noise issues

Dave,

Thanks for the idea. Perhaps it's from the power leads, but I don't think
it's likely. Everything's running off separate batteries.

73 de Dave NK0E

Dave wrote:

Perhaps through the power leads? I'd say your antenna theory is the most likely, though.

Date: Mon, 16 Sep 2002 09:37:03 -0600
From: "" <markb@abq.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135173] Re: Etchant Resist
Message-ID: <c394c266b8254507bacac5761061f896.markb@abq.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

wo7t@juno=2Ecom asks:

>Is there any good household materials that will serve as a good etchant=20
>resist for a small very basic circuit board
>I must make=2E I seem to recall finger nail polish?

After reading all of the posts about what to use to make
PCB's, I can't resist (doh!) posting how I make mine=2E

Even for very basic PCB's, I lay them out on the computer and do
what's called a toner transfer, where the PCB mask is printed
with a laser printer and the toner is re-melted from the paper onto
the bare copper board=2E There are numerous methods of doing this
described on the web but I have narrowed it down to a very simple
and inexpensive process=2E=20

What this buys you is a way to make *and repeat* a PCB design=2E
It is quite painstaking to manually "draw out" a PCB using sharpies,
model paint or whatever, and get it right the first time=2E Using
a computer and a laser printer you can make a very nice PCB in=20
a reasonable amount of time, and better yet, if you want to make
another one, the artwork is still there=2E When I make PCB's of=20
anything, I make a panel's worth as it takes just as long to etch
one as it does 10=2E

I've bought some specialized equipment to do this process as I=20
make boards professionally but it can be done with nothing more
than your computer, a clothes iron and the etch pan/dish/tank
you already have=2E You can use a basic computer paint program=20
to generate the artwork, or move up to some of the better PCB

tools out there, some free, some not=2E It pains me to read how people are painstakingly drawing out boards by hand when all the stuff they need to make professional looking PCB's is probably already in their home!

I put up a quickie PCB page on my website if you'd like to see a step-by-step how I do it, once you start making PCB's this way you'll never go back to sharpies, no matter how simple the board=2E
<http://www=2Eqsl=2Enet/k5lxp/projects/PCBFab/PCBFab=2Ehtml>

73,

Mark K5LXP
Albuquerque, NM
k5lxp@arrl=2Enet

Date: Mon, 16 Sep 2002 11:40:17 -0400
From: "Hartwell, Martin E, ALINF" <mehartwell@att.com>
To: <qrp-l@lehigh.edu>
Subject: [135174] Drake tr7 OT
Message-ID: <6579C6377F475547985F0B3E426E16260204DDD5@0CCLUST01EVS1.ugd.att.com>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: quoted-printable

Hi
Other than being able to use a tr7 at qrp levels this is slightly off =
topic. Anyone=20
have any idea of the worth of a tr7 plus power supply? Please answer off =
list at:

chartwell@att.net or mehartwell@att.com

Marty Hartwell
AT&T Columbus Ohio
PH:614-501-2503

Date: Mon, 16 Sep 2002 11:55:12 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: jpcummins@charter.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135175] Re: TS-830S radio
Message-ID: <3D85FEE0.A91DBC9F@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The TS830(S) does not use the 12BY7 driver tube. It is entirely solid state except for the 6146 finals. It also has about the quietest receiver I have ever used, fully the equal of my TS850S!

73

Date: Mon, 16 Sep 2002 11:38:32 -0400
From: "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [135176] TV ferrite for balun/choke
Message-ID: <001d01c25d97\$1d267660\$07ea7182@mcmaster.ca>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Another old computer monitor for the dumpster...
Removed the deflection yoke before wringing
the tube's neck. Save the two spring clips that hold
the two yoke halves together.

There's a lotta ferrite in these things. I'd guess
it'd take quite a big signal before saturation
sets in. Treated it like a deformed toroid, and
wound 16 turns of wire. No problem getting
even more turns of RG-58 thru the ample
center hole....

At 1Khz, got 180 uH inductance.
At 250 KHz got about the same inductance, but
what about resistive losses? Tried a resonant
circuit and got a sharp high-Q peak. Good! - that
means its mostly inductive, with little resistive
losses.
At 1MHz, got the same.

Seems like these ferrite yokes are RF-friendly.
A bit heavy for portable operation, and a bit
heavy to hang at the feedpoint of a dipole.
But oughta work well for a current-mode
balun, or a 4:1 balun.
Intend to try it out, driving 450 ohm balanced
line from my lopsided antenna tuner.
-Glen

Date: Mon, 16 Sep 2002 11:58:43 -0400
From: "Hartwell, Martin E, ALINF" <mehartwell@att.com>
To: <qrp-l@lehigh.edu>
Subject: [135177] Boiling coils
Message-ID: <6579C6377F475547985F0B3E426E16260204DDD6@OCCLUST01EVS1.ugd.att.com>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: quoted-printable

Hi

Reminds me of shortly after first getting married a long time ago, to =
boiling a carbarator
on the kitchen stove in a standard kitchen pot. New wife wasn't at all =
thrilled. The=20
standard manly answer "whats the problem, I'll just scrub it out", not =
the correct answer.

I bet though that boiling a toroid is a lot less objectionable to the =
carb.

>I have to confess to boiling a toroid. It seemed kind of silly, =
standing
>there in the kitchen boiling a radio part. =20

>Hap, WA3PTG
>Wilmington DE

">Boiling coils, Batman", "we're drifting!"

Nothing like a clean carb though.

Marty Hartwell kd8bj
AT&T Columbus Ohio
PH:614-501-2503

Date: Mon, 16 Sep 2002 11:27:41 -0500
From: MIKE SOUHRADA <wb9iog@revealed.net>
To: w6toy@erols.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135178] Re: TS-830S radio
Message-ID: <3D86067D.73830B9F@revealed.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bruce Muscolino wrote:

>
> The TS830(S) does not use the 12BY7 driver tube. It is entirely solid
> state except for the 6146 finals. It also has about the quietest
> receiver I have ever used, fully the equal of my TS850S!

BRUCE!

I guess then I can remove V-1 from my TS830S and save some energy.
V-1 is a 12BY7 and it sure looked like a tube to me. Guess the solid
state stuff used a clone.

Mike
Iowa

Date: Mon, 16 Sep 2002 10:26:47 -0600
From: William R Colbert <w5xe@juno.com>
To: mehartwell@att.com, qrp-l@lehigh.edu
Subject: [135179] Re: Drake tr7 OT
Message-ID: <20020916.102650.-285147.11.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have seen them on Eham.net, qrz.com, kacweb for sale
sites in the neighborhood of 450-600, depending on condition
and I think depending on if they have the programming set for
warc bands/all freq transmit. AADE.com has pricing for
various rigs as well.

73
Ray

Date: Mon, 16 Sep 2002 12:53:59 -0400
From: "Charles W3KC" <w3kc@starpower.net>
To: <qrp-1@lehigh.edu>
Subject: [135180] Re: Comments on Kenwood TS-830S
Message-ID: <006601c25da1\$ba067b60\$6e0e2c42@w3kc>

The following 3 at the top of my list of "oldies but goodies" (in my order of preference):

1. Yaesu FT101-ZD
2. Kenwood TS830
3. Icom 751A

The TenTec Corsair is at the very top though.

All are quiet, sensitive, and have excellent filters available.

72 de Chas W3KC

Date: Mon, 16 Sep 2002 13:01:37 -0400
From: "Rex Harper" <w1rex@megalink.net>
To: <qrp-1@lehigh.edu>
Subject: [135181] HB: Crystal & Foxhole Radio Parts Depot
Message-ID: <004701c25da2\$b8773360\$7201a8c0@maine.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Followers of the crystal and foxhole radio threads,

Here is an great link for parts and ideas for these radios,

<http://home.swbell.net/wb5rex/xtalman/index.htm>

Usual disclaimers, No financial connection...just the same first name!

W1REX Rex Harper "The Tinman"

Date: Mon, 16 Sep 2002 13:19:50 -0400
From: "Hartwell, Martin E, ALINF" <mehartwell@att.com>
To: <qrp-1@lehigh.edu>
Subject: [135182] Thanks
Message-ID: <6579C6377F475547985F0B3E426E16260204DDD8@OCCLUST01EVS1.ugd.att.com>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: quoted-printable

HI

I have received lots of opinions on value of a=20
Drake TR7 and PS7. Thanks now I guess I need to=20
wait and see if I can bid or not.

Marty Hartwell kd8bj
AT&T Columbus Ohio
PH:614-501-2503

Date: Mon, 16 Sep 2002 13:38:07 -0400
From: "W2WU" <w2wurjj@verizon.net>
To: <wb9iog@revealed.net>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [135183] TS-830S RECEIVER
Message-ID: <000c01c25da9\$0c5a5ce0\$71c2fea9@w2wu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Group:
I can vouch for receiver performance. It's next to the "Cadillac" e.g.
Collins.
W2WU

Date: Mon, 16 Sep 2002 10:52:11 -0700
From: "Tracy Markham" <tracy@bytemark.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [135184] RE: TS-830S
Message-ID: <GNEOLGDJDOPEALHJMKLCEEIJCLAA.tracy@bytemark.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think the 830 is one of Kenwood's finest rigs. I should have held on to mine some years ago.

I still have not found a rig with a receiver quite like the 830. It had fantastic filtering, and the best notch filter I've used. I can't speak for the Collins rigs, as I've never used one.

\$450 is a great deal.

Tracy N4LGH

Group:

I can vouch for receiver performance. It's next to the "Cadillac" e.g. Collins.

W2WU

Date: Mon, 16 Sep 2002 14:41:25 -0400
From: W2AGN <w2agn@w2agn.net>
To: w3kc@starpower.net,
 Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135185] Re: Comments on Kenwood TS-830S
Message-ID: <3D85ED95.13047.B11514F@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 16 Sep 2002 at 12:53, Charles W3KC wrote:

> The following 3 at the top of my list of "oldies but goodies" (in my order of
> preference):
> 1. Yaesu FT101-ZD
> 2. Kenwood TS830

> 3. Icom 751A
> The TenTec Corsair is at the very top though.
> All are quiet, sensitive, and have excellent filters available.
> 72 de Chas W3KC
>
>

I have to add one to the list. The FT-102. Plagued with bad relays, once they are replaced, the rig is in a class even better than the FT-1000. Check out <http://w2agn.net/ft102.html>.

--

/ \ / \ / \ / \ / \ John L. Sielke
(W)(2)(A)(G)(N) <http://www.w2agn.net>
 _ / _ / _ / _ / _ QRP/ARCI, NJQRP, ARQrp, GQRP, RSGB
Ex- K3HLU, W7JEF, W4MPC, N4JS

Date: Mon, 16 Sep 2002 14:07:24 -0500
From: "Jeff Mitchell" <jeffmit@datastratinc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135186] Re: Comments on Kenwood TS-830S
Message-ID: <00a501c25db4\$4b38b820\$6501a8c0@datastratinc.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> I have to add one to the list. The FT-102. Plagued with bad relays, once they are replaced, the rig is in a class even better than the FT-1000. Check out
> <http://w2agn.net/ft102.html>.

Yeah...I fully agree on the FT-102...internally the receiver operates at somewhere between 24-28V vs. 12V...great receiver for HF contesting where the signals are so huge, really a bullet proof front end...

Jeff, N4YQ

Date: Mon, 16 Sep 2002 15:08:55 -0400
From: "W2WU" <w2wurjj@verizon.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135187] TOLERATION
Message-ID: <000b01c25db4\$8dc52840\$71c2fea9@w2wu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Why leave for another's indiscretion? You'll be the looser. Aren't we to
forgive/forget. To turn the cheek - How many times? 144x144= forever!

----- Original Message -----

From: Brad Low <n5zis@yahoo.com>
To: <drake@mailman.qth.net>
Sent: 16 September, 2002 14:36
Subject: [Drake] Re: Drake digest, Vol 1 #210 - 3 msgs

><SNIP>

> Also sorry to disappoint you but no alcohol was on the
> premises. We are a group of Christian hams and any
> crack like calling us "Drunks on the Lake" is very
> shameful. Makes me think about not renewing my
> license next year. I had really enjoyed this hobby
> while it has lasted.

> >

> > <SNIP>

> >

> > I wonder if it has degenerated into

> > "Drunks-On-The-Lake", HI....

> >

> > <SNIP>

Date: Mon, 16 Sep 2002 17:31:06 +0100
From: "Leon Heller" <leon_heller@hotmail.com>
To: <markb@abq.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135188] Re: Etchant Resist
Message-ID: <DAV21jlrV9B0b6Z77H00017cec@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: <markb@abq.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Monday, September 16, 2002 4:37 PM

Subject: Re: Etchant Resist

wo7t@juno.com asks:

>Is there any good household materials that will serve as a good etchant

>resist for a small very basic circuit board

>I must make. I seem to recall finger nail polish?

After reading all of the posts about what to use to make
PCB's, I can't resist (doh!) posting how I make mine.

Even for very basic PCB's, I lay them out on the computer and do
what's called a toner transfer, where the PCB mask is printed
with a laser printer and the toner is re-melted from the paper onto
the bare copper board. There are numerous methods of doing this
described on the web but I have narrowed it down to a very simple
and inexpensive process.

I occasionally use the toner transfer technique, but most of the time I use
the 'classic' method with artwork printed onto tracing paper or
special film in my old LaserJet III printer. Exposing the PCB to UV and
development doesn't take any longer than cleaning the copper and ironing
on the image, and the results are much better.

73, Leon

--

Leon Heller, G1HSM

leon_heller@hotmail.com

http://www.geocities.com/leon_heller

Date: Mon, 16 Sep 2002 15:30:26 -0400

From: Bruce Muscolino <w6toy@erols.com>

To: w5xe@juno.com

Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>

Subject: [135189] Re: Drake tr7 OT

Message-ID: <3D863152.C72944B1@erols.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

The Drake TR-7 is a very capable transceiver. They operate on all ham bands (including WARC bands) and with the addition of the AUX-7 board they may be modified to transmit on any frequency. They had a complete line of crystal filters from 250 hZ through 6 kHz.

They were made from about 1975 through about 1985. They run over 100 watts output but can be turned down. They were also made in military and government versions. A fully loaded model will still bring around \$800! The Drake factory no longer supports them.

73

Date: Mon, 16 Sep 2002 15:35:25 -0400
From: "Winston F. Jones" <winjones@ix.netcom.com>
To: <w3kc@starpower.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135190] Re: Comments on Kenwood TS-830S
Message-ID: <000201c25db9\$54cc4000\$f827c043@winston>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I would also highly recommend the Ten-Tec Corsair, which can be found for around \$400. The Ten-Tec Delta and Ten-Tec Omni C can also be purchased in the \$300 range and they likewise have all WARC bands.

73, Winston K4CWQ

----- Original Message -----

From: "Charles W3KC" <w3kc@starpower.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, September 16, 2002 12:53 PM
Subject: Re: Comments on Kenwood TS-830S

> The following 3 at the top of my list of "oldies but goodies" (in my order of

> preference):

> 1. Yaesu FT101-ZD

> 2. Kenwood TS830

> 3. Icom 751A

> The TenTec Corsair is at the very top though.

> All are quiet, sensitive, and have excellent filters available.

> 72 de Chas W3KC

>

>

Date: Mon, 16 Sep 2002 15:46:07 -0400
From: Garey Barrell <k4oah@mindspring.com>
To: w6toy@erols.com, qrp-1@lehigh.edu
Subject: [135191] Re: Drake tr7 OT
Message-ID: <5.1.0.14.0.20020916153712.00a20190@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Bruce -

Actually more like mid '78 to mid '81.

Also, can transmit 1.5 to 30 _without_ AUX-7 by lifting one lead, or by cutting one pc trace.

With WH-7 (20W full scale position, or other similar wattmeter) output power can be smoothly adjusted anywhere from 0 to 20 W.) Full power is 150 Watts.

Typical great Drake product!

At 03:30 PM 9/16/2002, you wrote:

>The Drake TR-7 is a very capable transceiver. They operate on all ham
>bands (including WARC bands) and with the addition of the AUX-7 board
>they may be modified to transmit on any frequency. They had a complete
>line of crystal filters from 250 hZ through 6 kHz.

>

>They were made from about 1975 through about 1985. They run over 100
>watts output but can be turned down. They were also made in military
>and government versions. A fully loaded model will still bring around
>\$800! The Drake factory no longer supports them.

>

>73

Date: Mon, 16 Sep 2002 15:57:15 -0400
From: "Mike Boatright" <ko4wx@mindspring.com>
To: <qrp-1@lehigh.edu>
Cc: <ki6ds@dospalos.org>
Subject: [135192] Re: Stabel VF0's

Message-ID: <NFBBIIMKCMIIIGKAJMBLMELACGAA.ko4wx@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Isn't the stability of an oscillator, ultimately, established by the balance between feedback vs. loss in feeding back part of the output of an amplifier into it's input? E.g. you make an oscillator by feeding back to the input of an amplifier a small bit of the output. Too little feedback and eventually the oscillator damps out. Too much and the oscillator becomes unstable.

You make an oscillator oscillate on a particular frequency by forcing feedback from the output to the input through a circuit that has low (or lower) losses on a particular frequency (that you desire the oscillator to oscillate on) and high (or higher) losses on the frequencies which you do not desire. A parallel resonant L-C circuit (or an equivalent crystal) often does the job quite handily.

But the problem with the L-C circuit is that even the best made components have some resistance (or impedance) and as a result, change their physical characteristics--and correspondingly their electrical characteristics--when heated by current flowing through them. So, for example, an inductor or a capacitor may change a specific amount for a given temperature change. This is one of the bigger, but not only, contributors to VFO drift--that is the change in operating frequency over time. Note also that sometimes heating of other components can also contribute to drift--for example, a transistor used as an amplifier may have a small bit of capacitance that contributes slightly to the overall L-C circuit; heating of the transistor could change this as well.

If it were just heating that caused drift, then once all the components reached a stable level operations, intuitively, the oscillator should at some point, reach a stable level of operation where the medium pulling off heat from the circuit and the circuit generating the heat reach equilibrium. You might get such equilibrium in a very temperature controlled environment, but rarely in a ham shack--just try breathing near such a circuit!

Anyway, back to the drift issue. Different components contribute differently to drift. Some capacitors may, for example, increase in capacitance for a given increase in temperature, while others may have the exact opposite effect. More pronounced is the degree of shift for a given increase in temperature, the most stable being NPO or COG capacitors. But there are tons of circuits out there where, for example, replacing a Silver Mica capacitor with an NPO disc capacitor will totally destroy the circuit stability. Intuitively, construction method could contribute significantly as well--ergo the old advice of not using double sided PC board for a VFO.

Personally, I've found the W7ZOI/Hartley oscillator to be the most stable--probably because it has the fewest parts to heat, etc. In a forthcoming QQ article, I stole a couple of ideas from Wes and from Doug DeMaw, W1FB (SK), to make a very stable 40M W7ZOI/Hartely VFO that uses two 1N4001 diodes reverse biased as varactor diodes for frequency control in an LC circuit. I borrowed a neat idea from W1FB (I first saw it in QRP Classics) that feeds the reverse bias voltage through the base-emitter junction of an NPN transistor (instead of the traditional current limiting resistor). As the transistor heats, it's resistance changes just slightly, causing the amount of reverse bias on the diodes to change, changing their capacitance and therefore changing the operating frequency. But the same thing happens, except in the opposite direction, as the diodes heat. Hence, the two frequency changes cancel out, and the VFO becomes more stable (as stable as the other components allow it to be). Note that I achieved pretty dang good stability using ugly construction technique--would be interested to see results from others.

What's the point of all this?

Well, Doug makes a good point that different construction methods can definitely contribute to drift, but that there are a lot of other factors as well (can I be first to use the term "Kortge factor" referring to the beauty or lack thereof in VFO construction? In my case, I would probably rank somewhere about 9 or 10 thumbs, minum, on the Kortge scale). It would definitely be an interesting and useful exercise to compare different construction methods for the same circuit (although I never got the opportunity to meet him, I'm sure that W1FB would probably have theorized that UGLY construction would always be the best!) But it would be equally interesting to compare different circuits for the same construction method.

If there's one thing I've learned about electronics theory (and if nothing else, QRP has taught me a lot more about electronics theory than my extra class ticket could ever have laid claim to) it is that there are always trade-offs. The circuit I referred to above made the tradeoff between bandwidth/stability and cost/complexity.

What's the best VFO circuit? Why the one I'm using right now, of course. What's the best construction method? Why the one I used to build the VFO I'm using right now, of course!

8-)

72 de Mike, K04WX

Date: Mon, 16 Sep 2002 16:06:25 EDT
From: NB6M@aol.com
To: QRP-L@Lehigh.EDU
Subject: [135193] Rock-Mite VX0 Mods
Message-ID: <103.1b7578fb.2ab793c1@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi All,

Notwithstanding the fact that I haven't laid hands on a Rock-Mite yet, I have been experimenting with changing the oscillator in the little rig to a VX0 with a substantial frequency range.

Having breadboarded and tested VX0 Mods for both the 40 and 20 Meter versions, built "Ugly" style over a solid PC board ground plane, using all the same parts except for the MV1662, where I substituted a 1SV149, and achieving very respectable results, I would like to share them.

The 40 Meter VX0 Mod gives about a 10 Khz frequency range, from 7041.5 down to 7031.5, + or -. The 20 Meter version is even more satisfying, tuning from 14.065 down to 14.026 Mhz.

I have sent an article about the mods to Rod, N0RC, to post on the "Rock-Mite Files" portion of his website, as well as to Jerry Parker of NorCal, for posting on the NorCal page.

The only fly in the ointment that I can foresee in implementing the Mods is the difference in operation that may occur between building the VX0s "Ugly" style over a PC board ground plane and putting the same exact circuit on a PC board.

So, I am eager to either get my hands on a Rock Mite so that I can apply my VX0 Mods to them, or have any of you who wish to implement them do so and report back on results. Obviously, if the oscillator fails to give as good a result as a VX0 on the PC board, it could be "lifted" from the circuit, built on a PC board ground plane, and connected back to the main board.

Also included in the article is info on how to incorporate either a fixed TX offset or RIT into the VX0.

I am sure the article can be saved to a file from Rod's web page, or, if desired, I can email the article to whoever wants to give it a try.

Good luck with it.

72

Wayne NB6M

Date: Mon, 16 Sep 2002 16:20:01 -0400
From: "Howard Kraus" <K2UD@adelphia.net>
To: <NB6M@aol.com>
Cc: <qrp-1@lehigh.edu>
Subject: [135194] Re: Rock-Mite VX0 Mods
Message-ID: <00cb01c25dbe\$6fa44080\$07633018@buf.adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wayne and the list,

Has anybody tried VX0'ing the Rock-Mite using (2) xtals in parallel as is the custom in some other extended-range schemes? Don't have one (yet), haven't tried it, but would like to know what results anyone else may have had with theirs.

TNX es 72

Howard Kraus, K2UD
----- Original Message -----
From: <NB6M@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, September 16, 2002 4:06 PM
Subject: Rock-Mite VX0 Mods

> Hi All,
>
> Notwithstanding the fact that I haven't laid hands on a Rock-Mite yet, I have
> been experimenting with changing the oscillator in the little rig to a VX0
> with a substantial frequency range.
>
> Having breadboarded and tested VX0 Mods for both the 40 and 20 Meter
> versions, built "Ugly" style over a solid PC board ground plane, using all
> the same parts except for the MV1662, where I substituted a 1SV149, and
> achieving very respectable results, I would like to share them.
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> 14.065 down to 14.026 Mhz.
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"Rock-Mite
> Files" portion of his website, as well as to Jerry Parker of NorCal, for
> posting on the NorCal page.
>
> The only fly in the ointment that I can foresee in implementing the Mods is
> the difference in operation that may occur between building the VX0s
"Ugly"
> style over a PC board ground plane and putting the same exact circuit on a
PC
> board.
>
> So, I am eager to either get my hands on a Rock Mite so that I can apply
my
> VX0 Mods to them, or have any of you who wish to implement them do so and
> report back on results. Obviously, if the oscillator fails to give as
good a
> result as a VX0 on the PC board, it could be "lifted" from the circuit,
built
> on a PC board ground plane, and connected back to the main board.
>
> Also included in the article is info on how to incorporate either a fixed
TX
> offset or RIT into the VX0.
>
> I am sure the article can be saved to a file from Rod's web page, or, if
> desired, I can email the article to whoever wants to give it a try.
>
> Good luck with it.
>
> 72
>
> Wayne NB6M
>
>

Date: Mon, 16 Sep 2002 15:18:53 -0400
From: "George Heron N2APB" <n2apb@erols.com>
To: "QRP-L" <qrp-l@lehigh.edu>

Subject: [135195] RE: Serial CW Sender noise issues
Message-ID: <000c01c25dc0\$b4609e10\$cdca9cce@GHLTP4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

We've just received the production-quality Serial Sender pc boards, and they look FABULOUS! They are double-sided, plated-thru holes, with nice green solder mask and white silkscreen. And the boards fit like a glove in the plastic Hammond enclosure that it was designed for (supplied in the kit).

We're doing a proto build this week and should be able to start shipping in the next week or so.

Photos and more discussion coming in a few days.

The Serial Sender was featured in the most current QRP Homebrewer magazine, and the website is located at
<http://www.njqrp.org/palmserialsender/index.html>

Thanks for your patience ... this will be a fun project for all.

73, George N2APB n2apb@amsat.org

for the NJQRP Club at <http://www.njqrp.org>

=====

Have they started shipping the kits? I bought one when it first was announced and have not heard a peep from anyone on it.

Cecil
KD5NWA

Date: Mon, 16 Sep 2002 13:50:38 -0700 (PDT)
From: "H. Sawyer" <gdguy21@yahoo.com>
To: qrp-1@lehigh.edu
Subject: [135196] Which frequency counter to buy for QRP projects?
Message-ID: <20020916205038.43940.qmail@web14912.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Which frequency counter for sale currently is
recommended for the homebrewer? A kit would OK.

Howard
K06WL

Do you Yahoo!?
Yahoo! News - Today's headlines
<http://news.yahoo.com>

Date: Mon, 16 Sep 2002 16:58:37 -0400
From: "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>
To: "'gdguy21@yahoo.com'" <gdguy21@yahoo.com>,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135197] RE: Which frequency counter to buy for QRP projects?
Message-ID: <F9351DA9F0F6D41187410090277B3EB307D307DE@ev008msxaege.ae.ge.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I use my MFJ259 antenna analyzer. It has a counter - not NIST traceable :-) but
good enough for my projects. Oh . . . it also makes a great antenna analyzer as
well . . .

Mark, AA4MF

-----Original Message-----
From: H. Sawyer [mailto:gdguy21@yahoo.com]
Sent: Monday, September 16, 2002 4:51 PM
To: Low Power Amateur Radio Discussion
Subject: Which frequency counter to buy for QRP projects?

Which frequency counter for sale currently is
recommended for the homebrewer? A kit would OK.

Howard
K06WL

Do you Yahoo!?
Yahoo! News - Today's headlines
<http://news.yahoo.com>

Date: Mon, 16 Sep 2002 17:01:35 -0400
From: "N8IE" <n8ie@woh.rr.com>
To: "QRP-1" <qrp-1@lehigh.edu>
Subject: [135198] RE: TS-830S radio
Message-ID: <MMEDLKDLONJOAIGICDJACEECDEAA.n8ie@woh.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Bruce,
The Kenwood TS-830s uses three tubes.
A pair of 6146B transmitting tubes, and a 12BY7A driver tube.

72, oo
Dan, N8IE
FPqrp #-6, QRP-1 #1404, FISTS #4985

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
Bruce Muscolino
Sent: Monday, September 16, 2002 11:55 AM
To: Low Power Amateur Radio Discussion
Subject: Re: TS-830S radio

The TS830(S) does not use the 12BY7 driver tube. It is entirely solid
state except for the 6146 finals. It also has about the quietest
receiver I have ever used, fully the equal of my TS850S!

73

Incoming mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.385 / Virus Database: 217 - Release Date: 9/4/2002

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.385 / Virus Database: 217 - Release Date: 9/4/2002

Date: Mon, 16 Sep 2002 17:18:39 -0400

From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135199] Re: Which frequency counter to buy for QRP projects?
Message-ID: <005001c25dc6\$a1028580\$010044c0@chartermi.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I got a 269 for my birthday and I tell you what, that is a really neat thing. Besides analyzing antennas, it's pretty much relegated my counter to the shelf, and it measures capacitance and inductance, too. The actual antenna analyzer part tells you reactance, it'll do coax loss, magnitude and phase of the impedance, and on and on.

OK, maybe the counter isn't as good as it could be, but as Mark points out, it's plenty good enough for ham projects. And all the other goodies are sure nice to have with it.

The main downside is that the thing has an astonishing appetite for batteries, but sitting on the bench plugged into the station supply that's not much of an issue.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>
Subject: RE: Which frequency counter to buy for QRP projects?

> I use my MFJ259 antenna analyzer. It has a counter - not NIST traceable
> :-) but
> good enough for my projects. Oh . . . it also makes a great antenna
analyzer as
> well . . .

Date: Mon, 16 Sep 2002 14:21:58 -0700
From: "Tracy Markham" <tracy@bytemark.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [135200] 38.00035 MHz crystals
Message-ID: <GNEOLGDJDJOPEALHJMKLCCEJBCLAA.tracy@bytemark.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"

Content-Transfer-Encoding: 7bit

My favorite surplus place, SkyCraft Parts and Surplus, had a pile of 38.00035 MHz crystals for \$3.00 each. Seems better than \$19.95 for special order!! 38.00035 autta be able to pull down to 38.00000, right?

Anyway, I picked up a couple of these thinking they might be suitable for my 76 (wanted 78, but $76 + 146 = 222$... works good enough!) MHz LO for the 2m to 222 converter.

I was looking at the LO schematic for the Progressive receiver and they have part values for 36 MHz there, think that's close enough for 38??

Then I got to thinking, 'I bet there's an oscillator circuit out there that does the doubling all at once ...' any suggestions? I've built doublers before, and I've built oscillators to oscillate at the harmonic freq but that was usually 3x not 2x ... any suggestions?

Don't want to go through all the parts for an osc + doubler unless I gotta!! Mebbe the doubler can 'double' as a buffer amp, too?

Tracy N4LGH

Date: Mon, 16 Sep 2002 17:28:18 -0400
From: "Mark J. Dulcey" <mark@buttery.org>
To: gdguy21@yahoo.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135201] Re: Which frequency counter to buy for QRP projects?
Message-ID: <3D864CF2.80603@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

H. Sawyer wrote:

> Which frequency counter for sale currently is
> recommended for the homebrewer? A kit would OK.

One option is to check out the flea markets. Something is likely to show up. You might manage to land a nice lab-grade bench counter, if that's the sort of thing you want. (Such things are far too expensive for the typical ham's budget if bought new.)

One thing to watch out for in inexpensive counters is that they often have only 50 ohm inputs, which is inconvenient for probing a circuit; it loads the circuit too

much. (One example is the MFJ 886.) If you have a counter like that, you will need a buffer amplifier for some applications; also, it probably won't measure low frequencies (below 1 MHz or so) without a buffer.

One possible bargain, if you can manage to find one, is the recently discontinued Radio Shack pocket counter (22-306). Their web site no longer offers them for sale, but claims that some stores may still have them. \$80 for a counter that handles frequencies to 1.3 GHz doesn't look too bad.

As for kits, the AADE (<http://www.aade.com/>) DFD4 looks promising. They call it a digital display for a rig, but it's also easily turned into a standalone counter; their website even tells you how. The resulting counter has resolution of 1Hz through 30 MHz at the high-impedance input, and 100Hz resolution through 3 GHz through the 50 ohm prescaled input. The kit is \$60, plus \$5 for the controls (switches and stuff), plus what you spend on an enclosure, plus optional display upgrades (bigger and/or backlit). Even if you went deluxe on the box and display, you'd be hard-pressed to spend over \$100. Main drawback: only 100Hz resolution on 6 and 2 meters.

If you've got a bit more money to spend, or prefer something that's already built, Optoelectronics (<http://www.optoelectronics.com/>) has a nice selection of portable counters. But note that the least expensive model, the Cub (\$160), is 50 ohm only, so you might want to spring the extra cash for an M1 (\$250).

Date: Mon, 16 Sep 2002 17:31:14 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135202] RE: Which frequency counter to buy for QRP projects?
Message-ID: <721D3436A7C2B344A301FD4A413C71A93D8EA7@kosh.ARRLHQ.ORG>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

The Lab has a 259B, and I find it to be a really handy device. It is =
useful for all sorts of antenna work, at a reasonable enough accuracy =
level.

73,=20
Ed Hare, W1RFI
ARRL Lab
225 Main St
Newington, CT 06111
Tel: 860-594-0318

Internet: w1rfi@arrl.org
Web: <http://www.arrl.org/tis>

> -----Original Message-----

> From: John J. McDonough [mailto:wb8rcr@arrl.net]

> Sent: Monday, September 16, 2002 5:19 PM

> To: Low Power Amateur Radio Discussion

> Subject: Re: Which frequency counter to buy for QRP projects?

>=20

>=20

> I got a 269 for my birthday and I tell you what, that is a really neat
> thing. Besides analyzing antennas, it's pretty much=20

> relegated my counter to

> the shelf, and it measures capacitance and inductance, too. =20

> The actual

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> phase of the impedance, and on and on.

>=20

> OK, maybe the counter isn't as good as it could be, but as=20

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>=20

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>=20

> 72/73 de WB8RCR <http://www.qsl.net/wb8rcr>

> didileydadidah QRP-L #1446 Code Warriors #35

>=20

> ----- Original Message -----

> From: "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>

> Subject: RE: Which frequency counter to buy for QRP projects?

>=20

>=20

> > I use my MFJ259 antenna analyzer. It has a counter - not=20

> NIST traceable

> :-) but

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> analyzer as

> > well . . .

>=20

>=20

Date: Mon, 16 Sep 2002 17:55:50 -0400
From: "NZ8J" <nz8j@woh.rr.com>
To: <qrp-1@lehigh.edu>, <elecraft@qth.net>
Subject: [135203] K2 Sold
Message-ID: <005c01c25dcb\$d5564420\$28361f41@NZ8J>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to all who responded, the K2 has a new home
73
Tim
NZ8J

Date: Mon, 16 Sep 2002 17:59:06 -0400
From: "Steve Lawrence" <Steve.Lawrence@itwfeg.com>
To: qrp-1@lehigh.edu
Subject: [135204] Re: What Frequency Counter?
Message-ID: <0FD89C4411.11E60CEC-0N85256C36.007815AF-85256C36.0078C416@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Another thought...
When I shopped for a freq counter a few years back, I was interested in a unit that could measure audio frequencies. Specifically, I wanted to "tune up" TNCs for packet use. The issue? Most counters have a low frequency of about 1MHz. It took the purchase of a higher cost model to include coverage down into the audio frequency range.

Just a consideration.

73,
Steve
aa8af

Date: Mon, 16 Sep 2002 18:01:47 EDT
From: NB6M@aol.com

To: gdguy21@yahoo.com, QRP-L@Lehigh.EDU
Subject: [135205] Re:%20Which frequency counter to buy for QRP projects?
Message-ID: <184.e7dccb3.2ab7aecb@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Howard,

For general use where you just need the frequency within a Khz or so, the little Freq Mite kit from Small Wonder Labs works great. If memory serves, it just costs \$20 or so. Put together with a Piezo buzzer for an audio announcer, and set up to give you all the digits in the frequency via Morse Code, it is hard to beat for the price.

72

Wayne NB6M

Date: Mon, 16 Sep 2002 18:15:41 -0400
From: "Lee Mairs" <lmairs@cox.net>
To: <Mark.Fancher@ae.ge.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135206] Re: Which frequency counter to buy for QRP projects?
Message-ID: <001a01c25dce\$98293a00\$6501a8c0@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Second that. I have much better counters, but would by the antenna analyzer if I had it to do over again. I think I use the antenna analyzer more than I use the radios!!! It is great for making sure an antenna tuner is in fact tuning the antenna as well as for making sure my "dial-less" radios are within the proper band.

73 de Lee

KM4YY

----- Original Message -----

From: "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, September 16, 2002 4:58 PM
Subject: RE: Which frequency counter to buy for QRP projects?

> I use my MFJ259 antenna analyzer. It has a counter - not NIST traceable
:-) but

> good enough for my projects. Oh . . . it also makes a great antenna
analyzer as
> well . . .
>
> Mark, AA4MF
>
> -----Original Message-----
> From: H. Sawyer [mailto:gdguy21@yahoo.com]
> Sent: Monday, September 16, 2002 4:51 PM
> To: Low Power Amateur Radio Discussion
> Subject: Which frequency counter to buy for QRP projects?
>
>
> Which frequency counter for sale currently is
> recommended for the homebrewer? A kit would OK.
>
> Howard
> K06WL
>
>
> -----
> Do you Yahoo!?
> Yahoo! News - Today's headlines
> <http://news.yahoo.com>
>

Date: Mon, 16 Sep 2002 18:30:01 -0400
From: "Rick Tyler" <rp.tyler@worldnet.att.net>
To: <gdguy21@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [135207] Re: Which frequency counter to buy for QRP projects?
Message-ID: <00ab01c25dd0\$99c4fdc0\$44e7540c@ricktyle>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've been real happy with this little kit . . . sort of an oddball but works
great, and the price is right . . .
I've used it to align all the TenTec qrp kits and work on the Heathkit HW9 .
. . the guy's a ham, but this is not necessarily a ham related device. It
worked first time after I built it . . . built it into a little plastic
snack container. And now I have it hooked up to my used B&K Signal
Generator . . .

www.invent-electronics.com/Freq_Counter.htm

Here's the description from the web page:

Reads frequency from 1Hz to 50 MHz and displays it on a 16 character LCD display. Auto-range feature provides floating decimal point and automatic placement of suffix (Hz, KHz, or MHz). Gate speed automatically decreases to one second below 100KHz to display frequency with a resolution down to an amazing 1Hz. Must see to believe. Microprocessor-based circuitry provides for highly stable readout with no jitter. Soup up that home brewed function generator with a digital readout. Powered by a 9-volt battery (not included) or a 12VDC power pack (not included).

73 de Rick, WQ8Q

Date: Mon, 16 Sep 2002 18:31:35 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: n8ie@woh.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [135208] Re: TS-830S radio
Message-ID: <3D865BC7.D5E3C11C@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

It is apparently time for some sackcloth and ashes. Mea culpa, mea culpa, mea culpa. In my own defense, I have not had the top off my TS830 in well over a year. The last time was to replace the 6146's. I guess I missed the 12BY7.

73

End of QRP-L Digest 2680

